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Grado 3°

MINEDUCACIÓN
icfes mejor saber
TODOS POR UN NUEVO PAÍS
PAZ EQUIDAD EDUCACIÓN

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Silvana Godoy Mateus

Adaptación y elaboración del documento
Diana Oquendo Victoria
Martha Jeanet Castillo Ballén

Diseño y diagramación
Cecilia Martínez Rodríguez
Nathalia Chavarro Morcote
Alejandra Guzmán Escobar
Gustavo Andrés Álvarez Mejía

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GRADO 3°

GRADO 3° - PRUEBA DE MATEMÁTICAS

- **Pregunta 1.**

¿Cuántos giros lleva Anita?

A. Dieciséis.
B. Sesenta y ocho.
C. Ciento sesenta y ocho.
D. Seiscientos ochenta.

- **Estructura**

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Reconocer equivalencias entre diferentes tipos de representaciones relacionadas con números.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

- **Resultados a nivel de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	8.0%	8.4%	72.3%	8.0%	3.2%	747
Antioquia	3.9%	4.3%	86.2%	3.7%	2.0%	23291
Apartadó	4.1%	4.9%	84.5%	4.1%	2.4%	1416
Arauca	2.9%	3.8%	89.6%	3.2%	0.6%	2220
Armenia	2.6%	3.8%	89.9%	2.6%	1.1%	1807
Atlántico	5.3%	5.3%	80.1%	5.8%	3.5%	4407
Barrancabermeja	2.4%	3.3%	90.8%	2.5%	1.0%	1981
Barranquilla	3.0%	3.9%	88.3%	3.3%	1.5%	8932
Bello	2.6%	3.2%	90.0%	2.5%	1.7%	3124
Bogotá, D.C.	1.6%	2.7%	92.3%	2.2%	1.2%	49172
Bolívar	8.5%	7.7%	72.5%	8.0%	3.4%	8726
Boyacá	2.7%	3.9%	89.3%	3.5%	0.6%	6308
Bucaramanga	1.5%	3.0%	92.8%	1.8%	0.9%	3876
Buenaventura	4.4%	5.2%	82.7%	5.2%	2.5%	3796
Buga	2.0%	3.3%	92.0%	2.1%	0.6%	953
Caldas	2.3%	3.6%	90.3%	2.9%	0.7%	4143
Cali	2.3%	3.5%	90.4%	2.6%	1.1%	15520
Caquetá	3.8%	4.6%	86.0%	4.6%	1.1%	2536
Cartagena	4.1%	4.5%	84.4%	4.8%	2.1%	8484
Cartago	1.6%	3.8%	90.4%	3.2%	1.0%	985
Casanare	3.0%	4.5%	88.0%	3.3%	1.2%	2442
Cauca	3.5%	5.4%	83.6%	5.3%	2.2%	10046
Cesar	5.1%	4.9%	83.5%	5.2%	1.3%	6848
Chocó	7.9%	6.4%	75.6%	7.3%	2.6%	3675
Chía	1.5%	2.5%	93.7%	2.2%	0.2%	1018
Ciénaga	5.9%	5.9%	78.8%	6.8%	2.7%	1121
Cundinamarca	2.1%	3.1%	91.4%	2.6%	0.9%	11983
Córdoba	6.6%	6.2%	78.2%	6.9%	2.2%	10670
Cúcuta	2.1%	2.4%	92.5%	2.5%	0.6%	5718
Dosquebradas	1.9%	3.0%	92.0%	1.9%	1.3%	1396
Duitama	0.7%	1.9%	95.7%	1.3%	0.4%	994
Envigado	1.6%	1.9%	93.4%	1.4%	1.7%	1149
Facatativá	1.7%	3.3%	93.1%	1.0%	0.9%	1016
Florencia	3.9%	4.0%	86.8%	4.0%	1.3%	1579
Floridablanca	0.8%	2.1%	94.8%	1.5%	0.8%	1817
Fusagasugá	1.4%	3.3%	92.0%	1.7%	1.6%	897
Girardot	2.9%	5.8%	86.0%	4.1%	1.3%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	2.6%	3.4%	90.9%	2.6%	0.6%	1086
Guainía	5.1%	5.3%	80.1%	7.7%	1.8%	453
Guaviare	4.0%	4.8%	84.4%	5.9%	0.8%	726
Huila	3.1%	3.7%	89.0%	3.4%	0.7%	6269
Ibagué	1.8%	2.5%	92.9%	2.1%	0.7%	4048
Ipiales	2.0%	2.3%	91.9%	3.1%	0.7%	1122
Itagüí	2.6%	3.8%	88.9%	3.8%	1.0%	1490
Jamundí	4.5%	3.9%	87.8%	2.3%	1.5%	871
La Guajira	6.2%	6.4%	77.1%	7.7%	2.6%	3525
Lorica	5.9%	6.6%	80.7%	5.6%	1.3%	1091
Magangué	7.0%	8.3%	74.3%	7.4%	3.0%	1323
Magdalena	7.2%	7.3%	75.4%	7.0%	3.2%	7422
Maicao	5.7%	6.1%	80.4%	6.4%	1.4%	1712
Malambo	4.4%	3.6%	86.1%	4.7%	1.2%	934
Manizales	1.9%	2.5%	92.6%	2.2%	0.9%	2198
Medellín	2.7%	3.2%	89.6%	2.9%	1.7%	15605
Meta	3.0%	3.5%	88.8%	3.3%	1.4%	4238
Montería	5.2%	5.2%	83.0%	5.1%	1.5%	4135
Mosquera	1.4%	1.9%	94.3%	1.6%	0.8%	997
Nariño	3.5%	4.0%	85.8%	4.3%	2.5%	7001
Neiva	2.2%	2.8%	92.0%	2.3%	0.7%	2703
Norte de Santander	2.5%	2.7%	90.8%	3.1%	0.9%	6361
Palmira	1.7%	2.6%	92.7%	2.3%	0.7%	2342
Pasto	2.3%	2.7%	92.3%	2.1%	0.7%	2846
Pereira	2.5%	3.0%	91.4%	2.1%	1.0%	3341
Piedecuesta	2.0%	1.9%	93.9%	1.2%	1.0%	1149
Pitalito	3.4%	4.2%	89.4%	2.4%	0.6%	1232
Popayán	1.9%	2.6%	92.3%	2.2%	1.0%	2287
Putumayo	3.5%	4.1%	86.6%	4.6%	1.1%	3100
Quibdó	3.2%	5.1%	82.6%	6.4%	2.7%	1108
Quindío	3.3%	4.4%	87.9%	3.4%	1.1%	1714
Riohacha	6.3%	4.9%	82.4%	4.3%	2.1%	2171
Rionegro	1.6%	3.0%	92.7%	1.9%	0.8%	833
Risaralda	3.7%	3.8%	87.0%	3.9%	1.6%	1925
Sabaneta	1.6%	2.1%	93.1%	1.9%	1.3%	376
Sahagún	5.5%	4.4%	83.6%	4.7%	1.8%	908
San Andrés	3.8%	6.9%	83.0%	5.4%	0.9%	423
Santa Marta	3.9%	4.5%	86.4%	3.4%	1.8%	4318
Santander	2.8%	2.8%	90.7%	2.9%	0.7%	6310

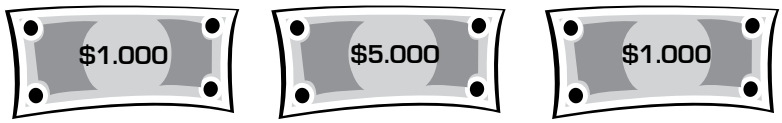
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	4.3%	3.9%	85.5%	4.8%	1.5%	2440
Soacha	2.1%	3.2%	91.3%	2.5%	0.9%	4202
Sogamoso	2.4%	3.6%	89.7%	3.4%	0.9%	1026
Soledad	2.7%	4.4%	88.3%	3.2%	1.4%	4026
Sucre	7.9%	6.8%	76.0%	7.3%	2.0%	6161
Tolima	3.3%	4.6%	86.7%	4.1%	1.3%	7274
Tuluá	1.4%	3.3%	92.4%	1.7%	1.2%	1652
Tumaco	10.2%	7.0%	68.6%	8.5%	5.9%	1940
Tunja	1.3%	2.8%	93.9%	1.4%	0.5%	1489
Turbo	7.8%	6.6%	76.5%	6.9%	2.2%	1827
Uribia	12.8%	9.1%	60.9%	11.1%	6.1%	1678
Valle del Cauca	2.9%	3.3%	89.7%	2.9%	1.1%	6692
Valledupar	3.2%	4.2%	86.5%	4.1%	2.0%	3942
Vichada	7.5%	6.7%	73.0%	10.2%	2.6%	803
Villavicencio	1.7%	2.6%	92.5%	2.3%	1.0%	4440
Yopal	2.6%	3.0%	90.6%	2.9%	0.8%	1576
Yumbo	2.6%	4.2%	89.2%	2.9%	1.1%	971
Zipaquirá	1.6%	2.6%	93.1%	1.9%	0.8%	994
Colombia	3.5%	4.0%	87.2%	3.8%	1.5%	380331

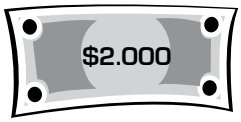
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

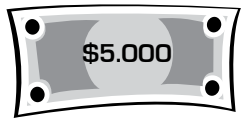
• Pregunta 2.

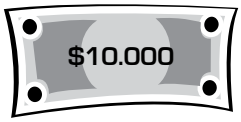
Mónica tenía estos billetes en su bolsillo.



Ella sacó un billete de los que tenía. ¿Cuál puede ser el billete que sacó?

A. 

B. 

C. 

D.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Establecer conjeturas acerca de la posibilidad de ocurrencia de eventos.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.7%	56.6%	14.2%	15.0%	3.5%	747
Antioquia	10.9%	66.3%	11.9%	8.9%	2.1%	23291
Apartadó	11.9%	65.8%	11.1%	8.7%	2.5%	1416
Arauca	10.6%	70.0%	10.4%	8.3%	0.7%	2220
Armenia	8.1%	76.6%	8.4%	5.7%	1.2%	1807
Atlántico	10.4%	64.1%	11.8%	9.6%	4.1%	4407
Barrancabermeja	8.4%	75.3%	9.9%	5.4%	1.0%	1981
Barranquilla	7.6%	73.9%	10.4%	6.5%	1.6%	8932
Bello	8.6%	73.8%	10.1%	5.6%	1.9%	3124
Bogotá, D.C.	7.3%	80.4%	6.7%	4.3%	1.3%	49172
Bolívar	11.8%	55.1%	16.3%	13.1%	3.7%	8726
Boyacá	10.0%	70.6%	11.3%	7.5%	0.6%	6308
Bucaramanga	7.5%	79.4%	7.5%	4.6%	1.0%	3876
Buenaventura	11.0%	65.2%	12.4%	8.9%	2.5%	3796
Buga	9.2%	73.3%	10.5%	5.8%	1.2%	953
Caldas	9.3%	72.6%	8.9%	8.3%	1.0%	4143
Cali	8.5%	75.7%	9.1%	5.4%	1.3%	15520
Caquetá	12.0%	64.3%	12.4%	10.0%	1.3%	2536
Cartagena	9.3%	69.5%	11.1%	7.7%	2.4%	8484
Cartago	9.4%	74.0%	9.1%	6.1%	1.3%	985
Casanare	10.3%	67.3%	13.2%	7.8%	1.4%	2442
Cauca	10.6%	65.7%	11.8%	9.4%	2.5%	10046
Cesar	10.2%	65.3%	13.3%	9.6%	1.5%	6848
Chocó	10.9%	59.0%	16.1%	11.0%	3.0%	3675
Chía	6.0%	84.4%	6.3%	2.9%	0.4%	1018
Ciénaga	10.7%	65.4%	12.5%	8.2%	3.2%	1121
Cundinamarca	8.0%	76.5%	8.5%	5.9%	1.1%	11983
Córdoba	11.0%	60.1%	14.3%	12.0%	2.6%	10670
Cúcuta	9.7%	74.5%	9.4%	5.6%	0.8%	5718
Dosquebradas	9.3%	76.2%	8.0%	5.4%	1.0%	1396
Duitama	5.0%	88.4%	3.9%	2.4%	0.2%	994
Envigado	7.7%	81.6%	4.6%	4.1%	2.0%	1149
Facatativá	7.4%	80.5%	6.9%	4.3%	0.9%	1016
Florencia	11.3%	65.5%	11.7%	9.8%	1.8%	1579
Floridablanca	7.0%	82.3%	6.7%	3.1%	0.8%	1817
Fusagasugá	6.9%	80.2%	6.7%	4.5%	1.8%	897
Girardot	10.3%	69.7%	12.6%	6.5%	1.0%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	9.6%	73.1%	10.0%	6.2%	1.1%	1086
Guainía	11.3%	60.5%	11.9%	14.1%	2.2%	453
Guaviare	12.7%	65.4%	12.9%	7.9%	1.1%	726
Huila	10.5%	67.9%	11.8%	8.8%	1.0%	6269
Ibagué	8.8%	78.9%	6.6%	4.8%	0.9%	4048
Ipiales	8.7%	76.9%	7.4%	6.1%	0.8%	1122
Itagüí	8.5%	76.3%	9.7%	4.5%	1.1%	1490
Jamundí	9.6%	72.6%	11.1%	4.7%	2.0%	871
La Guajira	9.0%	62.8%	14.1%	10.7%	3.5%	3525
Lorica	10.0%	66.5%	12.2%	10.0%	1.4%	1091
Magangué	12.7%	56.6%	16.1%	11.3%	3.3%	1323
Magdalena	11.3%	60.0%	14.1%	11.0%	3.6%	7422
Maicao	11.0%	62.9%	12.5%	11.3%	2.3%	1712
Malambo	7.0%	69.8%	12.3%	8.9%	2.0%	934
Manizales	7.6%	79.4%	7.3%	4.8%	1.0%	2198
Medellín	9.2%	72.9%	9.4%	6.6%	1.9%	15605
Meta	9.7%	70.7%	9.9%	8.2%	1.5%	4238
Montería	9.8%	65.7%	13.1%	9.7%	1.7%	4135
Mosquera	8.2%	80.3%	5.4%	4.8%	1.2%	997
Nariño	9.3%	69.3%	11.0%	7.8%	2.6%	7001
Neiva	9.7%	74.0%	9.5%	5.8%	1.0%	2703
Norte de Santander	8.6%	73.7%	10.0%	6.8%	1.0%	6361
Palmira	8.1%	77.7%	8.5%	4.9%	0.9%	2342
Pasto	7.8%	77.0%	8.9%	5.2%	1.2%	2846
Pereira	8.4%	76.7%	8.1%	5.8%	1.0%	3341
Piedecuesta	8.9%	78.2%	7.5%	4.5%	1.0%	1149
Pitalito	9.7%	71.9%	9.7%	7.9%	0.8%	1232
Popayán	8.0%	75.6%	9.2%	5.7%	1.4%	2287
Putumayo	10.5%	67.2%	11.2%	9.9%	1.3%	3100
Quibdó	11.6%	60.2%	15.7%	9.8%	2.7%	1108
Quindío	9.0%	73.2%	8.5%	7.9%	1.4%	1714
Riohacha	12.1%	62.8%	13.0%	9.4%	2.6%	2171
Rionegro	8.5%	78.8%	5.8%	6.2%	0.7%	833
Risaralda	9.9%	70.5%	10.2%	7.3%	2.1%	1925
Sabaneta	5.9%	81.1%	5.1%	6.4%	1.6%	376
Sahagún	8.9%	67.1%	11.6%	10.4%	2.1%	908
San Andrés	11.8%	70.4%	10.6%	5.4%	1.7%	423
Santa Marta	9.7%	70.1%	10.4%	8.0%	1.9%	4318
Santander	9.6%	72.2%	11.0%	6.4%	0.8%	6310

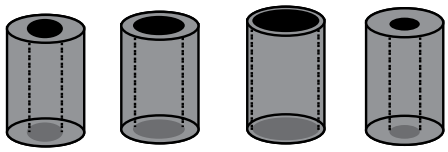
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.1%	69.4%	12.0%	7.9%	1.7%	2440
Soacha	8.6%	78.0%	7.9%	4.5%	1.0%	4202
Sogamoso	9.6%	74.8%	8.3%	6.8%	0.5%	1026
Soledad	8.0%	73.4%	9.9%	6.9%	1.8%	4026
Sucre	11.5%	58.6%	15.2%	12.2%	2.5%	6161
Tolima	10.2%	69.5%	10.8%	8.1%	1.5%	7274
Tuluá	9.1%	77.2%	8.6%	4.2%	0.8%	1652
Tumaco	12.2%	53.3%	14.7%	13.1%	6.7%	1940
Tunja	6.4%	82.3%	6.7%	4.0%	0.5%	1489
Turbo	12.8%	59.1%	15.2%	10.2%	2.7%	1827
Uribia	11.4%	51.7%	14.1%	16.0%	6.9%	1678
Valle del Cauca	9.9%	72.3%	9.4%	6.9%	1.4%	6692
Valledupar	9.4%	68.8%	11.4%	7.9%	2.5%	3942
Vichada	11.6%	53.3%	15.1%	16.6%	3.5%	803
Villavicencio	7.6%	78.9%	7.2%	5.1%	1.2%	4440
Yopal	8.9%	76.7%	8.3%	5.1%	1.0%	1576
Yumbo	8.0%	72.2%	11.1%	7.7%	0.9%	971
Zipaquirá	7.8%	81.3%	6.6%	3.5%	0.7%	994
Colombia	9.3%	71.2%	10.3%	7.4%	1.8%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 3.

Daniel va a llenar con agua los siguientes recipientes. Obsérvalos.



1 2 3 4

¿En cuál de ellos cabe más agua?

A. En el 1
B. En el 2
C. En el 3
D. En el 4

• Estructura

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Identificar atributos de objetos y eventos que son susceptibles de ser medidos.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	5.0%	7.0%	61.3%	22.5%	4.3%	747
Antioquia	2.6%	3.2%	67.2%	24.6%	2.4%	23291
Apartadó	4.7%	4.2%	71.3%	17.2%	2.8%	1416
Arauca	2.0%	2.4%	70.8%	23.6%	1.2%	2220
Armenia	2.4%	2.5%	78.3%	15.8%	1.0%	1807
Atlántico	3.7%	5.0%	64.0%	23.0%	4.4%	4407
Barrancabermeja	1.9%	2.3%	74.8%	19.6%	1.4%	1981
Barranquilla	2.4%	2.7%	77.0%	16.1%	1.8%	8932
Bello	2.4%	2.1%	77.1%	16.1%	2.2%	3124
Bogotá, D.C.	1.3%	1.5%	80.3%	15.3%	1.5%	49172
Bolívar	4.9%	6.2%	55.2%	29.4%	4.4%	8726
Boyacá	1.9%	2.3%	67.3%	27.5%	0.9%	6308
Bucaramanga	1.4%	1.3%	81.4%	14.7%	1.1%	3876
Buenaventura	3.3%	4.6%	66.9%	22.4%	2.8%	3796
Buga	1.8%	2.2%	73.8%	21.3%	0.9%	953
Caldas	2.5%	2.1%	70.7%	23.3%	1.4%	4143
Cali	1.9%	2.3%	77.4%	16.9%	1.5%	15520
Caquetá	3.2%	2.5%	59.3%	33.0%	1.9%	2536
Cartagena	3.2%	3.7%	72.7%	17.9%	2.5%	8484
Cartago	2.7%	1.6%	77.9%	16.4%	1.3%	985
Casanare	2.6%	2.9%	67.4%	25.4%	1.8%	2442
Cauca	3.2%	3.7%	62.3%	27.9%	2.9%	10046
Cesar	3.5%	3.6%	64.9%	26.1%	2.0%	6848
Chocó	5.2%	5.9%	59.8%	25.9%	3.2%	3675
Chía	1.4%	1.4%	83.1%	13.5%	0.7%	1018
Ciénaga	3.1%	4.6%	65.0%	24.5%	2.7%	1121
Cundinamarca	1.7%	1.6%	75.7%	19.7%	1.4%	11983
Córdoba	4.3%	5.2%	59.9%	27.8%	2.8%	10670
Cúcuta	1.7%	1.7%	76.7%	19.0%	0.8%	5718
Dosquebradas	1.1%	1.6%	77.9%	17.6%	1.7%	1396
Duitama	1.4%	0.5%	80.9%	16.8%	0.4%	994
Envigado	1.0%	1.1%	84.4%	11.7%	1.7%	1149
Facatativá	1.4%	1.3%	78.6%	17.5%	1.2%	1016
Florencia	1.8%	3.1%	70.4%	22.9%	1.8%	1579
Floridablanca	1.2%	1.2%	81.5%	15.4%	0.8%	1817
Fusagasugá	0.8%	1.6%	79.2%	16.6%	1.9%	897
Girardot	3.7%	2.1%	73.6%	19.0%	1.7%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	1.5%	1.7%	74.9%	21.2%	0.7%	1086
Guainía	2.4%	7.1%	66.0%	19.9%	4.6%	453
Guaviare	1.8%	2.1%	62.9%	31.3%	1.9%	726
Huila	2.2%	2.5%	66.6%	27.4%	1.3%	6269
Ibagué	1.3%	1.7%	80.9%	15.1%	1.0%	4048
Ipiales	2.0%	1.8%	75.8%	19.4%	1.0%	1122
Itagüí	2.8%	2.3%	78.3%	15.6%	1.1%	1490
Jamundí	2.6%	3.1%	69.2%	22.8%	2.2%	871
La Guajira	4.5%	6.2%	60.7%	24.9%	3.9%	3525
Lorica	3.2%	4.9%	66.1%	24.6%	1.2%	1091
Magangué	5.1%	6.3%	60.3%	24.4%	3.8%	1323
Magdalena	4.8%	5.2%	58.5%	27.3%	4.2%	7422
Maicao	4.6%	5.1%	61.4%	25.8%	3.0%	1712
Malambo	2.6%	3.6%	72.9%	18.7%	2.1%	934
Manizales	1.5%	1.4%	78.5%	17.2%	1.4%	2198
Medellín	2.0%	2.2%	78.1%	15.5%	2.1%	15605
Meta	2.4%	2.4%	67.6%	26.0%	1.6%	4238
Montería	3.1%	4.0%	67.1%	23.7%	2.1%	4135
Mosquera	1.0%	1.6%	80.0%	16.3%	1.0%	997
Nariño	2.6%	2.8%	64.1%	27.5%	3.0%	7001
Neiva	1.7%	1.8%	77.0%	18.1%	1.4%	2703
Norte de Santander	2.2%	2.4%	72.6%	21.6%	1.3%	6361
Palmira	1.4%	1.6%	76.5%	19.4%	1.2%	2342
Pasto	1.4%	1.4%	72.5%	23.5%	1.2%	2846
Pereira	2.0%	2.2%	78.0%	16.2%	1.6%	3341
Piedecuesta	1.6%	1.0%	79.9%	16.4%	1.2%	1149
Pitalito	1.8%	2.3%	71.4%	23.7%	0.8%	1232
Popayán	1.7%	2.0%	77.5%	17.5%	1.2%	2287
Putumayo	3.1%	3.0%	61.5%	30.6%	1.7%	3100
Quibdó	3.4%	3.6%	64.4%	24.8%	3.7%	1108
Quindío	2.2%	2.4%	71.9%	21.9%	1.5%	1714
Riohacha	4.0%	5.1%	67.2%	20.8%	3.0%	2171
Rionegro	1.8%	1.7%	78.3%	17.2%	1.1%	833
Risaralda	2.5%	1.1%	71.3%	22.9%	2.1%	1925
Sabaneta	0.8%	1.9%	87.0%	8.8%	1.6%	376
Sahagún	2.4%	3.7%	69.6%	22.1%	2.1%	908
San Andrés	3.1%	3.8%	67.8%	23.4%	1.9%	423
Santa Marta	2.9%	3.3%	71.9%	19.5%	2.4%	4318
Santander	1.7%	2.3%	72.1%	22.8%	1.0%	6310

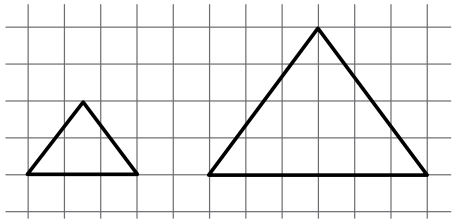
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	3.4%	3.6%	70.7%	20.2%	2.1%	2440
Soacha	1.5%	1.9%	79.0%	16.6%	1.0%	4202
Sogamoso	1.7%	2.4%	76.1%	19.2%	0.6%	1026
Soledad	2.3%	2.3%	75.6%	17.7%	2.2%	4026
Sucre	4.9%	5.5%	58.6%	28.2%	2.9%	6161
Tolima	2.5%	2.8%	66.7%	26.2%	1.9%	7274
Tuluá	1.4%	2.1%	78.2%	17.3%	1.0%	1652
Tumaco	5.2%	7.5%	55.4%	25.9%	6.0%	1940
Tunja	0.9%	1.3%	80.4%	16.3%	1.0%	1489
Turbo	4.4%	5.5%	62.3%	24.8%	3.0%	1827
Uribia	6.7%	10.5%	46.5%	30.4%	6.0%	1678
Valle del Cauca	2.0%	2.4%	71.7%	22.2%	1.6%	6692
Valledupar	2.5%	2.3%	71.6%	21.3%	2.2%	3942
Vichada	4.6%	5.0%	55.7%	32.1%	2.6%	803
Villavicencio	1.9%	1.3%	75.8%	19.5%	1.4%	4440
Yopal	1.5%	1.6%	73.4%	22.1%	1.5%	1576
Yumbo	2.3%	2.0%	75.5%	18.7%	1.5%	971
Zipaquirá	1.1%	1.9%	78.7%	17.7%	0.6%	994
Colombia	2.5%	2.9%	71.4%	21.2%	2.0%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 4.

Observa las figuras.



Estas figuras tienen

A. la misma forma pero diferente tamaño.
B. el mismo tamaño pero diferente forma.
C. la misma forma y el mismo tamaño.
D. diferente tamaño y diferente forma.

• Estructura

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Describir características de figuras que son semejantes o congruentes entre sí.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	57.4%	11.5%	10.4%	15.5%	5.1%	747
Antioquia	78.6%	4.7%	5.7%	8.8%	2.3%	23291
Apartadó	75.2%	5.2%	7.1%	9.3%	3.2%	1416
Arauca	78.8%	4.3%	6.5%	9.3%	1.1%	2220
Armenia	86.3%	3.2%	3.4%	5.9%	1.2%	1807
Atlántico	70.2%	6.7%	8.7%	10.2%	4.2%	4407
Barrancabermeja	83.8%	3.7%	4.2%	6.7%	1.5%	1981
Barranquilla	81.4%	4.2%	5.0%	7.6%	1.8%	8932
Bello	86.9%	2.8%	3.4%	4.6%	2.3%	3124
Bogotá, D.C.	89.2%	2.2%	2.8%	4.3%	1.5%	49172
Bolívar	61.2%	8.9%	10.9%	14.6%	4.4%	8726
Boyacá	80.9%	4.7%	6.0%	7.4%	1.0%	6308
Bucaramanga	90.1%	2.0%	2.5%	4.1%	1.3%	3876
Buenaventura	73.0%	6.2%	7.6%	10.3%	2.9%	3796
Buga	87.5%	2.4%	3.7%	5.2%	1.2%	953
Caldas	82.0%	3.8%	4.9%	8.0%	1.1%	4143
Cali	86.3%	3.1%	3.7%	5.4%	1.5%	15520
Caquetá	71.6%	6.7%	9.7%	10.4%	1.6%	2536
Cartagena	76.6%	5.3%	5.9%	9.1%	3.1%	8484
Cartago	86.8%	2.6%	4.1%	5.1%	1.4%	985
Casanare	79.0%	5.4%	7.0%	7.0%	1.5%	2442
Cauca	71.9%	6.4%	8.2%	10.3%	3.1%	10046
Cesar	72.9%	5.9%	7.4%	11.9%	1.9%	6848
Chocó	62.6%	9.3%	11.9%	13.2%	3.0%	3675
Chía	90.7%	1.9%	2.6%	4.2%	0.7%	1018
Ciénaga	67.7%	6.3%	10.8%	12.7%	2.5%	1121
Cundinamarca	85.6%	3.3%	4.0%	5.8%	1.3%	11983
Córdoba	64.9%	7.8%	10.4%	13.9%	3.0%	10670
Cúcuta	85.7%	3.0%	3.9%	6.3%	1.0%	5718
Dosquebradas	87.2%	3.4%	3.3%	4.7%	1.4%	1396
Duitama	92.6%	1.8%	1.7%	3.3%	0.6%	994
Envigado	91.6%	1.7%	1.7%	3.0%	2.0%	1149
Facatativá	89.6%	1.7%	3.0%	4.4%	1.4%	1016
Florencia	76.3%	6.6%	6.9%	8.2%	2.0%	1579
Floridablanca	91.4%	2.4%	2.3%	2.9%	1.0%	1817
Fusagasugá	88.3%	2.2%	3.1%	4.6%	1.8%	897
Girardot	76.1%	7.0%	7.0%	8.1%	1.7%	712

Continúa en la siguiente página

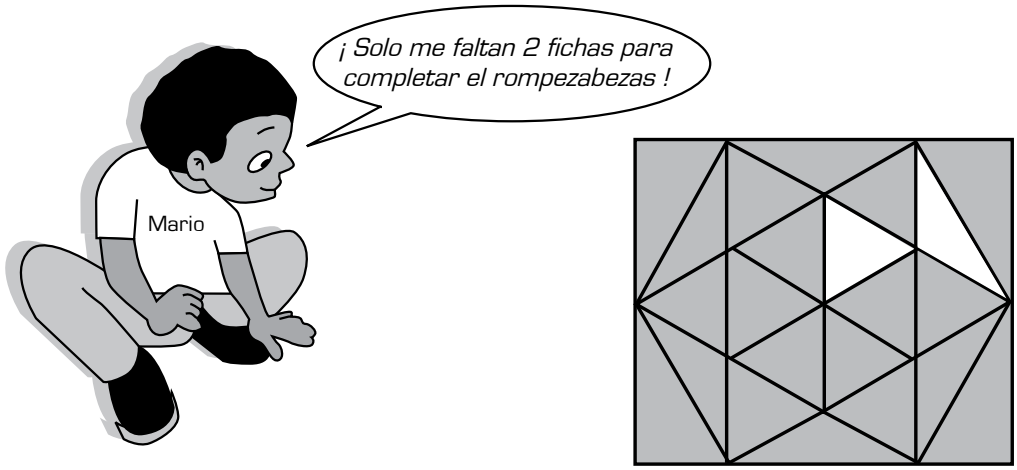
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	85.9%	4.1%	4.3%	5.1%	0.6%	1086
Guainía	59.4%	8.8%	14.8%	13.7%	3.3%	453
Guaviare	76.0%	5.8%	8.5%	8.7%	1.0%	726
Huila	77.8%	4.7%	7.4%	9.0%	1.1%	6269
Ibagué	87.1%	2.9%	3.7%	5.3%	1.0%	4048
Ipiales	84.4%	3.4%	3.4%	7.6%	1.2%	1122
Itagüí	89.4%	3.2%	2.4%	3.6%	1.4%	1490
Jamundí	81.3%	4.7%	4.2%	8.6%	1.1%	871
La Guajira	67.7%	8.3%	8.3%	11.5%	4.2%	3525
Lorica	73.5%	6.3%	7.8%	11.2%	1.2%	1091
Magangué	61.4%	8.1%	10.3%	15.9%	4.3%	1323
Magdalena	65.3%	7.3%	10.1%	12.8%	4.4%	7422
Maicao	69.6%	8.4%	7.4%	12.4%	2.3%	1712
Malambo	78.6%	4.7%	5.7%	7.7%	3.3%	934
Manizales	88.7%	2.2%	3.0%	4.6%	1.4%	2198
Medellín	85.9%	2.9%	3.4%	5.5%	2.2%	15605
Meta	79.9%	4.7%	6.4%	7.0%	2.0%	4238
Montería	73.2%	6.6%	8.1%	10.0%	2.0%	4135
Mosquera	89.1%	1.9%	2.4%	5.6%	1.0%	997
Nariño	76.5%	5.3%	6.8%	8.5%	2.9%	7001
Neiva	84.5%	3.8%	4.4%	5.9%	1.3%	2703
Norte de Santander	80.7%	4.2%	6.1%	7.7%	1.3%	6361
Palmira	88.9%	2.7%	3.4%	3.8%	1.2%	2342
Pasto	86.8%	2.7%	3.1%	6.2%	1.2%	2846
Pereira	86.8%	2.3%	3.7%	5.7%	1.5%	3341
Piedecuesta	88.1%	3.0%	3.4%	4.4%	1.2%	1149
Pitalito	81.7%	4.0%	5.8%	7.6%	0.8%	1232
Popayán	87.1%	1.9%	4.0%	5.9%	1.0%	2287
Putumayo	74.5%	6.1%	8.4%	9.4%	1.6%	3100
Quibdó	70.5%	5.4%	8.9%	11.1%	4.1%	1108
Quindío	83.1%	3.7%	4.1%	7.4%	1.7%	1714
Riohacha	70.5%	6.8%	8.3%	11.2%	3.2%	2171
Rionegro	90.3%	2.2%	2.8%	4.0%	0.8%	833
Risaralda	81.7%	4.1%	4.5%	7.4%	2.3%	1925
Sabaneta	89.6%	2.4%	2.1%	4.3%	1.6%	376
Sahagún	73.6%	5.2%	8.4%	11.0%	1.9%	908
San Andrés	79.2%	4.3%	7.8%	7.1%	1.7%	423
Santa Marta	78.8%	4.5%	5.8%	8.3%	2.6%	4318
Santander	83.1%	3.6%	5.8%	6.6%	1.0%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	77.0%	5.8%	5.9%	9.0%	2.3%	2440
Soacha	88.3%	2.8%	3.1%	4.6%	1.2%	4202
Sogamoso	90.3%	3.1%	2.0%	3.6%	1.0%	1026
Soledad	82.2%	4.0%	4.7%	7.2%	1.9%	4026
Sucre	62.3%	9.5%	11.3%	13.9%	3.0%	6161
Tolima	75.4%	5.5%	7.7%	9.4%	1.9%	7274
Tuluá	87.6%	3.6%	2.2%	5.3%	1.3%	1652
Tumaco	55.0%	9.4%	12.3%	15.5%	7.8%	1940
Tunja	90.1%	2.9%	2.6%	3.5%	0.9%	1489
Turbo	63.7%	8.5%	9.4%	14.7%	3.7%	1827
Uribia	48.2%	13.9%	14.6%	15.3%	8.0%	1678
Valle del Cauca	83.2%	3.8%	4.8%	6.8%	1.5%	6692
Valledupar	79.4%	3.8%	5.1%	9.5%	2.1%	3942
Vichada	57.4%	12.1%	12.2%	14.6%	3.7%	803
Villavicencio	85.9%	3.3%	3.9%	5.5%	1.4%	4440
Yopal	84.3%	3.7%	4.1%	6.8%	1.1%	1576
Yumbo	85.6%	2.8%	3.7%	6.6%	1.3%	971
Zipaquirá	90.5%	2.0%	2.2%	4.6%	0.6%	994
Colombia	79.9%	4.5%	5.7%	7.8%	2.1%	380331

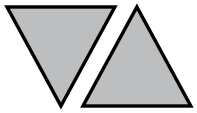
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 5.**

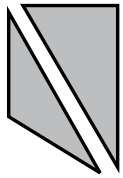


¿Qué fichas completan el rompecabezas de Mario?

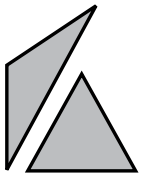
A.



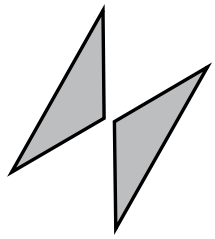
B.



C.



D.



- **Estructura**

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

- **Resultados a nivel de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	7.0%	6.6%	71.0%	9.6%	5.9%	747
Antioquia	3.9%	3.9%	83.5%	6.4%	2.2%	23291
Apartadó	3.5%	4.2%	83.3%	6.6%	2.5%	1416
Arauca	3.0%	3.7%	87.6%	5.1%	0.5%	2220
Armenia	2.6%	2.3%	89.3%	4.6%	1.2%	1807
Atlántico	5.7%	5.1%	77.9%	6.9%	4.4%	4407
Barrancabermeja	2.4%	2.1%	90.2%	4.0%	1.3%	1981
Barranquilla	2.6%	3.3%	87.4%	5.0%	1.8%	8932
Bello	2.2%	3.0%	87.8%	5.2%	1.8%	3124
Bogotá, D.C.	1.6%	1.8%	91.4%	3.6%	1.5%	49172
Bolívar	8.1%	6.9%	70.8%	9.7%	4.6%	8726
Boyacá	2.9%	3.2%	87.2%	5.7%	0.9%	6308
Bucaramanga	1.8%	1.3%	92.2%	3.5%	1.2%	3876
Buenaventura	4.8%	4.7%	81.0%	6.5%	3.1%	3796
Buga	2.7%	2.6%	89.8%	3.8%	1.0%	953
Caldas	2.6%	2.9%	87.7%	5.6%	1.2%	4143
Cali	2.3%	2.4%	88.7%	5.1%	1.5%	15520
Caquetá	5.0%	5.2%	81.4%	7.0%	1.5%	2536
Cartagena	4.0%	3.8%	83.5%	5.8%	2.9%	8484
Cartago	1.7%	3.6%	90.6%	3.2%	0.9%	985
Casanare	3.2%	3.8%	85.5%	6.2%	1.4%	2442
Cauca	4.4%	4.5%	80.9%	7.0%	3.2%	10046
Cesar	5.4%	4.1%	81.7%	6.8%	1.9%	6848
Chocó	8.7%	7.5%	71.5%	9.2%	3.2%	3675
Chía	1.8%	2.0%	92.1%	3.4%	0.7%	1018
Ciénaga	6.2%	4.5%	78.9%	7.6%	2.8%	1121
Cundinamarca	2.3%	2.5%	89.8%	4.4%	1.0%	11983
Córdoba	6.9%	5.4%	76.4%	8.2%	3.1%	10670
Cúcuta	2.2%	2.2%	90.1%	4.7%	0.8%	5718
Dosquebradas	2.4%	2.1%	89.2%	4.9%	1.4%	1396
Duitama	1.8%	1.9%	93.2%	2.7%	0.4%	994
Envigado	1.0%	1.7%	92.2%	3.0%	2.1%	1149
Facatativá	1.4%	2.1%	90.7%	4.1%	1.7%	1016
Florencia	3.7%	2.7%	85.0%	6.6%	2.0%	1579
Floridablanca	1.4%	1.4%	93.6%	2.7%	0.9%	1817
Fusagasugá	1.8%	1.8%	91.5%	3.3%	1.6%	897

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girardot	3.7%	3.1%	87.6%	4.6%	1.0%	712
Girón	2.6%	1.8%	89.0%	5.6%	1.0%	1086
Guainía	7.9%	6.2%	72.6%	9.7%	3.5%	453
Guaviare	3.9%	3.7%	83.7%	7.4%	1.2%	726
Huila	3.4%	2.9%	86.2%	6.3%	1.3%	6269
Ibagué	1.8%	2.6%	90.7%	4.0%	1.0%	4048
Ipiales	1.9%	2.6%	90.3%	4.1%	1.2%	1122
Itagüí	3.0%	2.9%	88.2%	4.9%	1.1%	1490
Jamundí	3.6%	3.4%	87.0%	4.5%	1.5%	871
La Guajira	7.4%	6.2%	74.8%	7.7%	3.9%	3525
Lorica	4.9%	4.1%	81.3%	8.1%	1.6%	1091
Magangué	6.4%	6.8%	74.2%	8.4%	4.2%	1323
Magdalena	6.9%	6.6%	74.1%	8.0%	4.4%	7422
Maicao	6.5%	6.0%	75.9%	9.4%	2.2%	1712
Malambo	4.0%	3.5%	85.1%	5.0%	2.4%	934
Manizales	2.0%	2.4%	89.6%	4.5%	1.4%	2198
Medellín	2.2%	2.8%	87.3%	5.4%	2.2%	15605
Meta	3.5%	3.4%	85.0%	6.1%	2.1%	4238
Montería	4.5%	5.0%	81.5%	6.7%	2.2%	4135
Mosquera	1.1%	2.0%	92.1%	3.8%	1.0%	997
Nariño	4.2%	3.9%	83.5%	5.5%	2.8%	7001
Neiva	2.1%	2.6%	88.5%	5.5%	1.3%	2703
Norte de Santander	3.1%	2.9%	88.1%	4.6%	1.3%	6361
Palmira	1.8%	2.0%	91.0%	4.0%	1.2%	2342
Pasto	1.3%	2.2%	91.3%	3.8%	1.4%	2846
Pereira	2.3%	2.8%	88.8%	4.6%	1.5%	3341
Piedecuesta	1.5%	2.1%	92.1%	3.1%	1.2%	1149
Pitalito	2.9%	2.9%	87.7%	5.6%	0.8%	1232
Popayán	2.2%	3.2%	89.4%	4.0%	1.2%	2287
Putumayo	3.6%	5.0%	83.2%	6.5%	1.6%	3100
Quibdó	5.6%	4.8%	78.6%	7.7%	3.3%	1108
Quindío	3.4%	3.0%	85.9%	5.9%	1.8%	1714
Riohacha	5.2%	5.7%	78.4%	7.2%	3.5%	2171
Rionegro	1.4%	1.6%	92.3%	3.7%	1.0%	833
Risaralda	2.6%	3.3%	86.0%	6.1%	2.0%	1925
Sabaneta	1.1%	3.7%	88.8%	4.8%	1.6%	376
Sahagún	6.2%	3.6%	82.5%	5.6%	2.1%	908
San Andrés	5.2%	5.9%	79.7%	7.6%	1.7%	423
Santa Marta	3.7%	3.8%	84.6%	5.4%	2.6%	4318

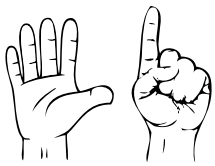
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Santander	3.0%	2.6%	88.7%	4.9%	0.9%	6310
Sincelejo	4.6%	4.0%	83.9%	5.6%	2.0%	2440
Soacha	1.7%	2.3%	90.6%	4.3%	1.1%	4202
Sogamoso	1.9%	2.7%	90.7%	3.7%	1.0%	1026
Soledad	3.0%	3.0%	87.3%	4.8%	2.0%	4026
Sucre	7.2%	5.9%	75.1%	8.9%	3.0%	6161
Tolima	3.7%	3.5%	84.3%	6.6%	1.9%	7274
Tuluá	2.5%	1.3%	90.9%	4.4%	0.8%	1652
Tumaco	8.4%	6.7%	66.3%	10.8%	7.8%	1940
Tunja	0.8%	1.9%	93.0%	3.6%	0.7%	1489
Turbo	7.9%	6.3%	72.6%	9.6%	3.6%	1827
Uribia	12.0%	12.3%	54.9%	13.3%	7.4%	1678
Valle del Cauca	3.4%	2.8%	87.0%	5.2%	1.5%	6692
Valledupar	3.3%	3.3%	86.0%	5.1%	2.2%	3942
Vichada	10.8%	7.0%	68.9%	9.6%	3.7%	803
Villavicencio	1.9%	2.1%	89.7%	4.8%	1.5%	4440
Yopal	2.2%	3.2%	88.5%	5.1%	1.1%	1576
Yumbo	3.1%	2.9%	87.8%	4.6%	1.5%	971
Zipaquirá	1.4%	0.9%	92.1%	4.0%	1.6%	994
Colombia	3.5%	3.5%	85.3%	5.7%	2.0%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 6.**

Mostrar la mano así representa el número 5, y cada dedo de la otra mano, uno más.

Si alguien muestra sus manos así 

está representando el número

A. 1
B. 6
C. 15
D. 51

- **Estructura**

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Reconocer equivalencias entre diferentes tipos de representaciones relacionadas con números.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.6%	71.6%	5.8%	6.3%	4.7%	747
Antioquia	8.9%	80.3%	5.2%	3.7%	1.9%	23291
Apartadó	10.1%	78.5%	5.6%	2.9%	2.8%	1416
Arauca	8.0%	83.4%	4.7%	3.2%	0.6%	2220
Armenia	6.2%	85.5%	3.9%	3.1%	1.3%	1807
Atlántico	9.8%	75.9%	5.7%	5.0%	3.6%	4407
Barrancabermeja	5.1%	86.5%	4.3%	3.2%	0.9%	1981
Barranquilla	6.8%	84.0%	4.6%	3.3%	1.4%	8932
Bello	6.0%	86.0%	4.1%	2.3%	1.6%	3124
Bogotá, D.C.	4.6%	88.3%	3.1%	2.8%	1.3%	49172
Bolívar	13.5%	68.2%	8.1%	6.6%	3.7%	8726
Boyacá	7.8%	83.9%	4.5%	3.2%	0.7%	6308
Bucaramanga	4.4%	88.5%	3.0%	2.9%	1.1%	3876
Buenaventura	9.4%	77.5%	6.0%	4.9%	2.2%	3796
Buga	7.0%	84.8%	3.9%	3.5%	0.8%	953
Caldas	7.3%	84.0%	5.1%	2.8%	0.9%	4143
Cali	6.6%	85.5%	4.1%	2.8%	1.1%	15520
Caquetá	10.1%	78.7%	5.8%	3.9%	1.3%	2536
Cartagena	8.0%	80.2%	5.3%	4.2%	2.3%	8484
Cartago	5.9%	87.3%	3.9%	2.4%	0.5%	985
Casanare	8.3%	81.9%	5.2%	3.4%	1.2%	2442
Cauca	9.6%	77.8%	6.1%	4.3%	2.3%	10046
Cesar	10.4%	78.2%	6.0%	4.0%	1.4%	6848
Chocó	11.6%	73.4%	6.4%	6.0%	2.6%	3675
Chía	4.1%	89.8%	3.0%	2.6%	0.5%	1018
Ciénaga	11.6%	76.2%	5.2%	4.7%	2.3%	1121
Cundinamarca	5.5%	87.0%	3.6%	3.0%	0.9%	11983
Córdoba	11.0%	74.4%	6.8%	5.6%	2.3%	10670
Cúcuta	6.0%	87.4%	3.3%	2.8%	0.6%	5718
Dosquebradas	6.2%	87.0%	3.4%	2.4%	1.1%	1396
Duitama	3.2%	90.0%	3.7%	2.8%	0.2%	994
Envigado	3.5%	89.4%	2.2%	3.0%	1.9%	1149
Facatativá	3.8%	89.5%	2.9%	2.8%	1.1%	1016
Florencia	7.7%	82.2%	5.0%	3.6%	1.5%	1579
Floridablanca	3.5%	88.9%	2.8%	3.9%	0.8%	1817
Fusagasugá	5.8%	86.7%	2.5%	3.6%	1.4%	897
Girardot	8.6%	81.7%	5.9%	2.8%	1.0%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	6.4%	86.0%	3.6%	3.2%	0.7%	1086
Guainía	13.0%	73.5%	5.3%	5.1%	3.1%	453
Guaviare	7.4%	81.8%	5.1%	4.1%	1.5%	726
Huila	9.3%	82.0%	5.0%	2.9%	0.8%	6269
Ibagué	4.9%	88.4%	3.4%	2.2%	1.0%	4048
Ipiales	6.2%	88.0%	2.9%	2.3%	0.6%	1122
Itagüí	5.8%	86.6%	4.5%	2.3%	0.9%	1490
Jamundí	7.2%	80.8%	6.7%	4.1%	1.1%	871
La Guajira	11.5%	74.2%	5.6%	5.5%	3.3%	3525
Lorica	8.2%	78.8%	5.9%	5.5%	1.6%	1091
Magangué	14.2%	70.5%	5.7%	6.4%	3.2%	1323
Magdalena	12.2%	72.1%	6.7%	5.8%	3.2%	7422
Maicao	12.6%	74.6%	6.9%	4.1%	1.8%	1712
Malambo	7.4%	79.9%	6.2%	4.4%	2.1%	934
Manizales	5.4%	87.6%	3.4%	2.8%	0.8%	2198
Medellín	7.0%	84.6%	4.1%	2.6%	1.7%	15605
Meta	8.4%	82.6%	4.4%	3.0%	1.6%	4238
Montería	9.5%	78.8%	6.1%	4.0%	1.6%	4135
Mosquera	4.4%	88.2%	2.8%	3.9%	0.7%	997
Nariño	8.6%	80.8%	4.8%	3.5%	2.3%	7001
Neiva	6.1%	86.6%	3.5%	2.7%	1.0%	2703
Norte de Santander	6.9%	84.9%	4.0%	3.1%	1.0%	6361
Palmira	5.7%	87.2%	3.6%	2.4%	1.1%	2342
Pasto	6.6%	87.5%	2.6%	2.5%	0.9%	2846
Pereira	5.8%	87.3%	3.4%	2.3%	1.3%	3341
Piedecuesta	5.3%	88.7%	2.9%	2.0%	1.1%	1149
Pitalito	8.4%	83.7%	4.6%	2.6%	0.6%	1232
Popayán	5.9%	86.4%	3.9%	2.9%	0.8%	2287
Putumayo	9.3%	81.0%	5.5%	3.2%	1.0%	3100
Quibdó	9.4%	77.3%	5.5%	4.6%	3.2%	1108
Quindío	7.5%	84.5%	4.6%	2.2%	1.2%	1714
Riohacha	10.5%	75.9%	6.1%	4.7%	2.8%	2171
Rionegro	6.6%	86.6%	3.6%	2.2%	1.1%	833
Risaralda	7.1%	85.1%	3.8%	2.2%	1.8%	1925
Sabaneta	3.5%	89.4%	2.1%	3.7%	1.3%	376
Sahagún	8.5%	79.7%	5.8%	4.4%	1.5%	908
San Andrés	9.0%	80.4%	5.4%	4.0%	1.2%	423
Santa Marta	8.7%	81.5%	4.3%	3.4%	2.1%	4318
Santander	7.0%	85.4%	3.6%	3.3%	0.7%	6310

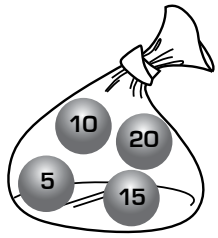
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.1%	81.1%	4.1%	4.1%	1.6%	2440
Soacha	6.3%	86.7%	3.6%	2.6%	0.8%	4202
Sogamoso	5.2%	86.5%	4.1%	3.6%	0.7%	1026
Soledad	7.0%	84.1%	4.4%	3.0%	1.4%	4026
Sucre	12.6%	71.3%	7.2%	6.7%	2.2%	6161
Tolima	8.4%	81.8%	5.2%	3.2%	1.4%	7274
Tuluá	6.2%	87.5%	4.1%	1.5%	0.8%	1652
Tumaco	15.7%	63.9%	7.3%	7.6%	5.6%	1940
Tunja	4.5%	89.4%	2.5%	2.8%	0.8%	1489
Turbo	12.6%	71.0%	7.9%	5.7%	2.7%	1827
Uribia	15.3%	60.1%	10.6%	8.3%	5.8%	1678
Valle del Cauca	6.7%	84.8%	4.2%	3.1%	1.2%	6692
Valledupar	7.9%	81.9%	4.4%	3.8%	2.1%	3942
Vichada	13.0%	68.9%	9.2%	6.0%	3.0%	803
Villavicencio	5.5%	86.6%	3.9%	2.7%	1.3%	4440
Yopal	6.7%	85.7%	4.2%	2.8%	0.6%	1576
Yumbo	6.8%	83.4%	5.3%	3.1%	1.4%	971
Zipaquirá	5.0%	88.3%	2.4%	3.7%	0.5%	994
Colombia	7.7%	82.4%	4.6%	3.6%	1.6%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 7.

Una bolsa contiene únicamente cuatro balotas con los siguientes números.



Al sacar una balota de la bolsa, sin mirar, ¿cuál puede salir?

A. 1 B. 2 C. 5 D. 6

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Establecer conjeturas acerca de la posibilidad de ocurrencia de eventos.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.5%	8.4%	64.7%	11.5%	3.9%	747
Antioquia	8.3%	6.5%	76.8%	6.1%	2.2%	23291
Apartadó	9.6%	7.1%	73.4%	7.3%	2.6%	1416
Arauca	8.1%	5.7%	79.3%	6.1%	0.9%	2220
Armenia	5.4%	5.4%	83.9%	4.2%	1.1%	1807
Atlántico	8.3%	7.0%	73.7%	7.0%	4.0%	4407
Barrancabermeja	6.5%	4.7%	83.3%	4.6%	0.8%	1981
Barranquilla	6.3%	5.6%	81.5%	4.8%	1.7%	8932
Bello	6.7%	5.0%	82.3%	4.4%	1.7%	3124
Bogotá, D.C.	5.1%	3.9%	86.2%	3.5%	1.4%	49172
Bolívar	9.6%	10.8%	65.8%	10.1%	3.7%	8726
Boyacá	7.3%	4.9%	81.3%	5.8%	0.6%	6308
Bucaramanga	5.5%	3.5%	86.6%	3.0%	1.4%	3876
Buenaventura	8.2%	7.0%	75.4%	6.8%	2.6%	3796
Buga	6.6%	5.1%	81.8%	5.6%	0.8%	953
Caldas	6.7%	4.8%	81.7%	5.7%	1.0%	4143
Cali	6.1%	5.0%	83.2%	4.4%	1.3%	15520
Caquetá	9.2%	6.5%	75.8%	6.9%	1.5%	2536
Cartagena	6.6%	6.1%	79.6%	5.3%	2.4%	8484
Cartago	6.0%	4.0%	85.7%	3.7%	0.7%	985
Casanare	9.1%	6.3%	76.7%	6.8%	1.1%	2442
Cauca	7.2%	7.0%	76.4%	6.9%	2.5%	10046
Cesar	8.8%	7.2%	75.6%	6.9%	1.6%	6848
Chocó	10.6%	8.7%	69.5%	8.4%	2.9%	3675
Chía	5.4%	3.2%	87.3%	3.5%	0.5%	1018
Ciénaga	7.9%	7.1%	74.0%	7.6%	3.5%	1121
Cundinamarca	5.5%	4.1%	85.2%	4.1%	1.1%	11983
Córdoba	10.0%	8.5%	70.2%	8.7%	2.6%	10670
Cúcuta	6.5%	4.5%	84.1%	4.2%	0.8%	5718
Dosquebradas	4.8%	4.7%	84.7%	4.7%	1.1%	1396
Duitama	4.8%	3.2%	88.5%	3.2%	0.2%	994
Envigado	3.6%	3.0%	88.5%	2.9%	2.0%	1149
Facatativá	4.2%	3.3%	87.5%	3.7%	1.2%	1016
Florencia	8.4%	6.0%	76.8%	7.1%	1.8%	1579
Floridablanca	4.2%	2.8%	88.7%	3.4%	0.8%	1817
Fusagasugá	5.5%	3.8%	84.9%	4.5%	1.3%	897
Girardot	6.7%	6.9%	80.8%	4.8%	0.8%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	5.7%	4.0%	83.2%	6.0%	1.1%	1086
Guainía	8.4%	11.7%	66.7%	9.5%	3.8%	453
Guaviare	10.3%	5.0%	75.3%	7.9%	1.5%	726
Huila	8.2%	5.6%	79.2%	6.2%	0.9%	6269
Ibagué	5.6%	4.0%	86.0%	3.4%	1.0%	4048
Ipiales	6.5%	4.0%	82.9%	5.5%	1.1%	1122
Itagüí	6.9%	6.6%	82.0%	3.3%	1.1%	1490
Jamundí	6.3%	5.9%	81.3%	4.9%	1.6%	871
La Guajira	7.9%	9.1%	71.8%	7.6%	3.7%	3525
Lorica	8.1%	6.9%	76.4%	7.0%	1.6%	1091
Magangué	9.8%	10.1%	67.3%	9.9%	2.9%	1323
Magdalena	8.8%	9.9%	69.5%	8.2%	3.7%	7422
Maicao	7.8%	10.3%	70.6%	9.3%	2.0%	1712
Malambo	7.4%	5.8%	79.8%	4.4%	2.7%	934
Manizales	4.8%	3.8%	86.3%	3.9%	1.2%	2198
Medellín	7.0%	4.9%	81.2%	4.8%	2.0%	15605
Meta	8.4%	5.2%	79.3%	5.4%	1.7%	4238
Montería	7.1%	7.6%	75.6%	7.4%	2.3%	4135
Mosquera	5.5%	3.2%	87.1%	3.1%	1.1%	997
Nariño	7.8%	5.9%	77.3%	6.4%	2.6%	7001
Neiva	7.3%	4.3%	82.3%	5.2%	1.0%	2703
Norte de Santander	6.6%	4.8%	82.4%	4.9%	1.2%	6361
Palmira	5.8%	4.2%	84.7%	4.3%	1.0%	2342
Pasto	5.8%	4.3%	83.6%	5.3%	1.0%	2846
Pereira	6.2%	4.1%	84.0%	4.3%	1.4%	3341
Piedecuesta	4.5%	3.6%	87.3%	3.4%	1.2%	1149
Pitalito	5.9%	4.7%	82.4%	6.3%	0.7%	1232
Popayán	5.9%	4.2%	84.2%	4.5%	1.1%	2287
Putumayo	8.8%	6.6%	76.4%	7.0%	1.2%	3100
Quibdó	9.2%	7.8%	71.6%	7.5%	4.0%	1108
Quindío	6.2%	5.8%	80.9%	5.3%	1.8%	1714
Riohacha	8.6%	7.6%	74.0%	7.1%	2.7%	2171
Rionegro	5.0%	3.6%	86.2%	4.0%	1.2%	833
Risaralda	7.3%	4.6%	80.7%	5.4%	2.0%	1925
Sabaneta	4.5%	4.5%	85.6%	4.3%	1.1%	376
Sahagún	8.8%	6.1%	76.3%	7.3%	1.5%	908
San Andrés	8.0%	5.7%	76.8%	7.8%	1.7%	423
Santa Marta	7.4%	5.5%	80.0%	5.2%	1.9%	4318
Santander	6.4%	4.9%	83.7%	4.2%	0.7%	6310

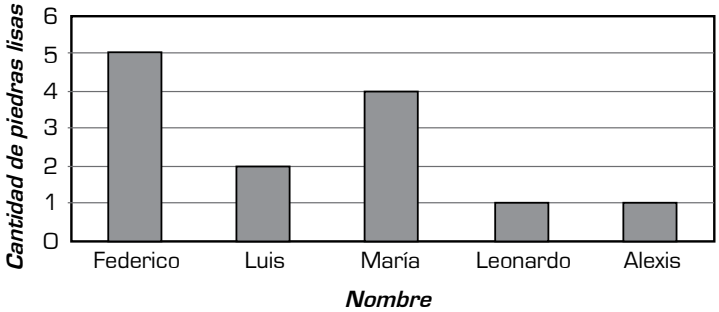
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.8%	6.0%	75.4%	7.9%	1.9%	2440
Soacha	5.5%	4.5%	85.0%	3.7%	1.3%	4202
Sogamoso	7.0%	3.9%	84.3%	4.1%	0.7%	1026
Soledad	6.4%	4.8%	82.8%	4.4%	1.6%	4026
Sucre	9.8%	9.1%	68.7%	10.0%	2.5%	6161
Tolima	7.3%	6.0%	79.0%	6.3%	1.4%	7274
Tuluá	6.2%	3.6%	84.1%	5.0%	1.1%	1652
Tumaco	9.2%	11.4%	64.4%	8.9%	6.1%	1940
Tunja	4.7%	3.5%	87.8%	3.3%	0.7%	1489
Turbo	11.3%	8.9%	68.4%	8.5%	2.9%	1827
Uribia	9.7%	12.8%	57.9%	12.5%	7.1%	1678
Valle del Cauca	7.1%	4.7%	81.1%	5.6%	1.4%	6692
Valledupar	7.4%	6.0%	79.1%	5.5%	2.1%	3942
Vichada	11.3%	11.5%	60.9%	13.3%	3.0%	803
Villavicencio	5.7%	4.4%	84.6%	3.8%	1.5%	4440
Yopal	5.6%	4.6%	82.7%	6.2%	1.0%	1576
Yumbo	6.9%	5.0%	80.6%	6.1%	1.3%	971
Zipaquirá	4.1%	3.1%	89.7%	2.2%	0.8%	994
Colombia	7.1%	5.7%	79.8%	5.6%	1.8%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 8.

Cinco amigos recogieron piedras lisas en la playa. En la gráfica se muestra la cantidad de piedras que recogió cada uno.



Gráfica

¿Quiénes de los cinco amigos recogieron más de 3 piedras lisas?

A. Federico y Luis.
B. María y Federico.
C. María, Leonardo y Alexis.
D. Luis, Leonardo y Alexis.

• Estructura

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	20.9%	59.7%	8.2%	6.4%	4.8%	747
Antioquia	13.7%	75.4%	5.1%	3.5%	2.2%	23291
Apartadó	13.9%	73.8%	5.6%	4.0%	2.7%	1416
Arauca	14.9%	77.6%	3.3%	3.5%	0.7%	2220
Armenia	9.8%	83.6%	3.3%	2.1%	1.3%	1807
Atlántico	15.8%	68.2%	6.9%	5.1%	4.0%	4407
Barrancabermeja	10.3%	83.3%	3.0%	2.5%	0.9%	1981
Barranquilla	11.3%	79.8%	4.2%	2.9%	1.8%	8932
Bello	7.5%	85.7%	2.9%	2.2%	1.7%	3124
Bogotá, D.C.	6.1%	88.8%	2.2%	1.5%	1.4%	49172
Bolívar	20.1%	57.8%	10.4%	7.6%	4.1%	8726
Boyacá	10.7%	82.9%	3.3%	2.3%	0.8%	6308
Bucaramanga	6.1%	88.8%	2.4%	1.3%	1.4%	3876
Buenaventura	15.3%	69.5%	6.8%	5.8%	2.6%	3796
Buga	8.7%	85.5%	3.4%	1.6%	0.8%	953
Caldas	13.7%	79.7%	3.2%	2.5%	0.9%	4143
Cali	9.1%	84.8%	3.0%	1.8%	1.3%	15520
Caquetá	19.6%	67.9%	6.4%	4.8%	1.3%	2536
Cartagena	13.6%	74.0%	5.7%	4.0%	2.7%	8484
Cartago	8.4%	85.9%	3.6%	1.4%	0.7%	985
Casanare	11.4%	80.1%	4.4%	2.7%	1.4%	2442
Cauca	18.9%	68.8%	5.2%	4.6%	2.5%	10046
Cesar	16.6%	69.9%	6.6%	5.1%	1.8%	6848
Chocó	18.0%	61.9%	9.6%	7.4%	3.0%	3675
Chía	5.7%	90.6%	1.8%	1.3%	0.7%	1018
Ciénaga	20.9%	63.1%	7.8%	6.2%	2.1%	1121
Cundinamarca	8.7%	85.2%	3.0%	2.1%	1.1%	11983
Córdoba	18.2%	64.5%	8.2%	6.4%	2.6%	10670
Cúcuta	7.8%	86.1%	3.4%	2.1%	0.6%	5718
Dosquebradas	9.2%	85.3%	2.4%	1.8%	1.3%	1396
Duitama	4.6%	92.4%	1.2%	1.6%	0.2%	994
Envigado	4.4%	90.5%	2.2%	1.0%	1.8%	1149
Facatativá	6.5%	88.6%	2.9%	1.5%	0.6%	1016
Florencia	15.5%	74.9%	4.7%	3.1%	1.8%	1579
Floridablanca	4.2%	92.1%	1.9%	0.9%	0.9%	1817
Fusagasugá	7.5%	85.4%	2.8%	2.7%	1.7%	897
Girardot	13.2%	77.9%	4.9%	2.7%	1.3%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	6.8%	86.8%	2.7%	2.7%	1.0%	1086
Guainía	20.1%	62.0%	9.3%	5.3%	3.3%	453
Guaviare	17.1%	72.5%	5.2%	4.1%	1.1%	726
Huila	14.4%	77.3%	4.2%	3.0%	1.0%	6269
Ibagué	9.0%	86.2%	2.3%	1.5%	0.9%	4048
Ipiales	9.1%	86.4%	1.7%	2.2%	0.6%	1122
Itagüí	7.0%	86.9%	3.1%	2.0%	0.9%	1490
Jamundí	14.7%	77.2%	2.6%	3.8%	1.7%	871
La Guajira	18.4%	63.3%	8.6%	6.3%	3.4%	3525
Lorica	17.0%	70.5%	5.9%	4.9%	1.8%	1091
Magangué	21.2%	60.3%	8.7%	6.1%	3.7%	1323
Magdalena	20.9%	59.5%	8.8%	6.8%	4.1%	7422
Maicao	18.5%	64.7%	8.3%	6.1%	2.3%	1712
Malambo	13.9%	74.0%	5.5%	4.3%	2.4%	934
Manizales	7.5%	87.3%	2.3%	1.9%	1.0%	2198
Medellín	8.5%	83.9%	3.4%	2.3%	1.9%	15605
Meta	13.8%	77.7%	4.0%	2.9%	1.7%	4238
Montería	13.8%	73.5%	6.3%	4.2%	2.1%	4135
Mosquera	6.9%	89.0%	2.1%	1.0%	1.0%	997
Nariño	13.3%	74.8%	5.4%	3.7%	2.8%	7001
Neiva	8.6%	85.3%	2.7%	2.1%	1.2%	2703
Norte de Santander	12.3%	80.9%	3.2%	2.5%	1.0%	6361
Palmira	7.3%	87.8%	2.2%	1.7%	1.0%	2342
Pasto	6.5%	88.3%	2.4%	2.0%	0.9%	2846
Pereira	8.9%	85.2%	3.0%	1.6%	1.3%	3341
Piedecuesta	5.3%	88.7%	2.4%	2.1%	1.5%	1149
Pitalito	14.4%	77.8%	3.5%	3.6%	0.6%	1232
Popayán	8.2%	85.8%	2.8%	2.2%	1.0%	2287
Putumayo	14.2%	76.2%	4.4%	3.7%	1.5%	3100
Quibdó	16.3%	68.8%	6.4%	4.3%	4.2%	1108
Quindío	11.9%	78.7%	4.0%	3.9%	1.6%	1714
Riohacha	16.6%	68.0%	6.9%	5.5%	3.0%	2171
Rionegro	6.5%	87.9%	2.2%	2.4%	1.1%	833
Risaralda	14.0%	77.3%	3.9%	3.0%	1.8%	1925
Sabaneta	5.3%	88.3%	2.9%	1.9%	1.6%	376
Sahagún	15.2%	72.0%	5.6%	5.1%	2.1%	908
San Andrés	22.2%	66.0%	6.6%	3.8%	1.4%	423
Santa Marta	15.6%	74.1%	4.6%	3.5%	2.3%	4318
Santander	9.3%	84.1%	3.0%	2.7%	0.9%	6310

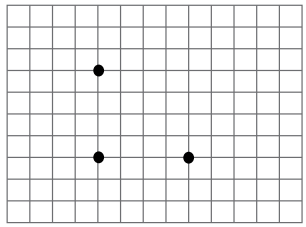
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	11.9%	76.7%	4.6%	4.7%	2.1%	2440
Soacha	8.3%	85.7%	2.6%	2.3%	1.0%	4202
Sogamoso	5.8%	89.6%	1.9%	2.0%	0.6%	1026
Soledad	10.7%	81.3%	3.4%	2.9%	1.6%	4026
Sucre	19.9%	61.1%	9.1%	7.3%	2.6%	6161
Tolima	14.8%	75.8%	4.5%	3.3%	1.5%	7274
Tuluá	8.7%	85.5%	2.8%	1.9%	1.1%	1652
Tumaco	20.8%	52.6%	11.2%	8.2%	7.2%	1940
Tunja	5.1%	91.8%	1.4%	1.1%	0.6%	1489
Turbo	17.7%	63.3%	8.7%	7.1%	3.2%	1827
Uribia	17.6%	50.9%	14.4%	9.8%	7.3%	1678
Valle del Cauca	12.2%	79.5%	3.9%	3.0%	1.4%	6692
Valledupar	13.5%	76.1%	4.6%	3.6%	2.2%	3942
Vichada	21.2%	59.7%	9.3%	6.4%	3.5%	803
Villavicencio	7.2%	87.4%	2.6%	1.4%	1.4%	4440
Yopal	8.9%	84.7%	3.0%	2.7%	0.7%	1576
Yumbo	11.9%	81.1%	3.4%	2.4%	1.2%	971
Zipaquirá	6.2%	88.8%	2.5%	1.7%	0.7%	994
Colombia	11.9%	78.5%	4.5%	3.3%	1.9%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

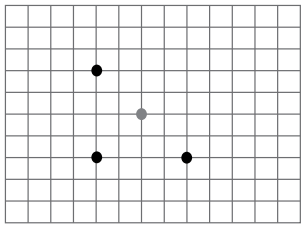
• Pregunta 9.

Se quiere dibujar un cuadrado en la cuadrícula y se ubicaron tres puntos.

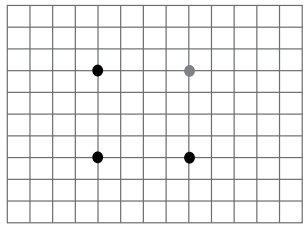


¿En dónde se debe ubicar el cuarto punto para dibujar el cuadrado?

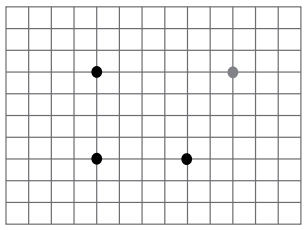
A.



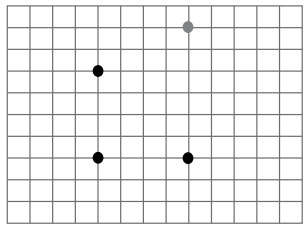
B.



C.



D.



• Estructura

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

- **Resultados a nivel de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.6%	73.0%	6.6%	5.6%	4.3%	747
Antioquia	8.4%	80.5%	4.2%	4.6%	2.3%	23291
Apartadó	8.5%	79.3%	4.7%	4.7%	2.9%	1416
Arauca	8.3%	83.5%	3.4%	4.1%	0.7%	2220
Armenia	6.2%	86.2%	3.2%	3.1%	1.3%	1807
Atlántico	8.8%	75.3%	5.3%	6.0%	4.5%	4407
Barrancabermeja	5.8%	87.5%	2.5%	3.0%	1.2%	1981
Barranquilla	7.1%	83.4%	3.6%	4.1%	1.9%	8932
Bello	7.0%	85.0%	3.4%	2.5%	2.1%	3124
Bogotá, D.C.	4.7%	89.8%	1.8%	2.1%	1.6%	49172
Bolívar	12.2%	66.5%	8.2%	8.6%	4.5%	8726
Boyacá	7.0%	85.9%	2.8%	3.4%	0.9%	6308
Bucaramanga	5.3%	89.8%	1.8%	1.6%	1.6%	3876
Buenaventura	8.3%	77.2%	5.3%	6.4%	2.8%	3796
Buga	5.9%	86.9%	2.2%	3.8%	1.3%	953
Caldas	8.0%	84.1%	2.9%	3.6%	1.3%	4143
Cali	6.0%	86.9%	2.7%	2.9%	1.5%	15520
Caquetá	9.2%	80.8%	4.1%	4.5%	1.4%	2536
Cartagena	7.5%	79.9%	4.7%	5.0%	3.0%	8484
Cartago	6.7%	86.7%	2.5%	3.1%	0.9%	985
Casanare	9.0%	82.9%	3.2%	3.5%	1.5%	2442
Cauca	7.9%	79.9%	4.3%	5.2%	2.7%	10046
Cesar	8.8%	78.3%	5.2%	5.8%	1.9%	6848
Chocó	10.8%	68.5%	8.1%	9.3%	3.3%	3675
Chía	4.4%	92.0%	1.7%	0.9%	1.0%	1018
Ciénaga	8.7%	76.0%	7.0%	5.4%	2.9%	1121
Cundinamarca	6.3%	87.8%	2.2%	2.6%	1.1%	11983
Córdoba	9.7%	72.5%	7.2%	7.5%	3.1%	10670
Cúcuta	6.8%	87.7%	2.2%	2.6%	0.8%	5718
Dosquebradas	6.0%	87.9%	1.9%	2.9%	1.3%	1396
Duitama	4.5%	92.3%	1.9%	1.2%	0.1%	994
Envigado	2.8%	92.1%	1.6%	1.8%	1.7%	1149
Facatativá	6.0%	89.9%	1.8%	1.3%	1.1%	1016
Florencia	8.6%	82.2%	4.1%	3.4%	1.8%	1579
Floridablanca	4.5%	90.9%	1.9%	1.8%	0.9%	1817
Fusagasugá	5.9%	88.5%	1.4%	2.3%	1.8%	897

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girardot	7.9%	82.2%	4.4%	3.9%	1.7%	712
Girón	7.7%	85.1%	2.8%	3.7%	0.7%	1086
Guainía	11.5%	74.8%	3.5%	6.0%	4.2%	453
Guaviare	9.5%	80.7%	4.1%	4.0%	1.7%	726
Huila	8.1%	83.8%	3.6%	3.5%	1.0%	6269
Ibagué	5.4%	89.0%	2.2%	2.4%	1.0%	4048
Ipiales	4.5%	90.4%	2.3%	1.7%	1.1%	1122
Itagüí	5.4%	86.6%	3.8%	2.9%	1.3%	1490
Jamundí	6.3%	83.8%	3.8%	4.1%	2.0%	871
La Guajira	10.8%	71.3%	7.0%	6.8%	4.1%	3525
Lorica	9.4%	78.0%	4.6%	6.6%	1.4%	1091
Magangué	10.7%	70.4%	5.8%	9.3%	3.8%	1323
Magdalena	9.4%	70.8%	7.2%	8.3%	4.3%	7422
Maicao	9.6%	74.2%	6.4%	7.5%	2.2%	1712
Malambo	7.3%	80.8%	4.2%	5.2%	2.5%	934
Manizales	5.6%	88.1%	2.4%	2.6%	1.3%	2198
Medellín	6.5%	85.5%	2.6%	3.1%	2.3%	15605
Meta	8.2%	82.5%	3.7%	3.6%	2.1%	4238
Montería	8.0%	78.8%	5.7%	5.3%	2.2%	4135
Mosquera	4.2%	91.1%	2.1%	1.6%	1.0%	997
Nariño	7.7%	81.6%	3.4%	4.4%	3.0%	7001
Neiva	6.9%	86.5%	2.4%	3.1%	1.1%	2703
Norte de Santander	7.2%	85.3%	3.0%	3.4%	1.1%	6361
Palmira	5.5%	88.6%	2.3%	2.6%	1.0%	2342
Pasto	5.2%	90.5%	1.7%	1.7%	1.0%	2846
Pereira	6.6%	86.6%	2.5%	2.8%	1.4%	3341
Piedecuesta	5.4%	89.5%	2.1%	1.9%	1.1%	1149
Pitalito	8.2%	84.0%	3.5%	3.4%	0.9%	1232
Popayán	5.5%	88.4%	2.2%	2.3%	1.6%	2287
Putumayo	7.9%	82.3%	4.3%	3.9%	1.6%	3100
Quibdó	8.2%	73.6%	7.3%	6.7%	4.2%	1108
Quindío	7.7%	84.1%	2.7%	4.1%	1.5%	1714
Riohacha	7.7%	77.2%	5.9%	5.9%	3.1%	2171
Rionegro	4.0%	89.0%	3.4%	2.3%	1.4%	833
Risaralda	7.5%	83.5%	3.2%	3.4%	2.4%	1925
Sabaneta	5.1%	88.0%	2.9%	2.4%	1.6%	376
Sahagún	7.3%	79.4%	5.1%	6.5%	1.8%	908
San Andrés	8.7%	77.5%	7.6%	5.0%	1.2%	423
Santa Marta	8.2%	81.1%	3.8%	4.3%	2.5%	4318

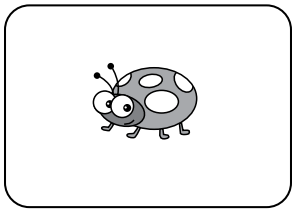
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Santander	8.0%	85.2%	2.5%	3.4%	0.9%	6310
Sincelejo	8.6%	79.5%	4.8%	4.9%	2.2%	2440
Soacha	5.8%	88.0%	2.6%	2.2%	1.5%	4202
Sogamoso	6.7%	87.9%	2.5%	2.0%	0.8%	1026
Soledad	6.5%	84.5%	3.8%	3.2%	2.0%	4026
Sucre	10.8%	70.6%	7.4%	8.0%	3.2%	6161
Tolima	8.2%	82.3%	3.4%	4.4%	1.8%	7274
Tuluá	6.7%	87.2%	2.7%	2.5%	1.0%	1652
Tumaco	11.5%	62.7%	9.6%	8.2%	7.9%	1940
Tunja	4.9%	90.5%	1.7%	2.1%	0.8%	1489
Turbo	10.7%	71.5%	7.0%	7.6%	3.2%	1827
Uribia	12.2%	58.6%	12.0%	10.0%	7.2%	1678
Valle del Cauca	7.0%	84.8%	3.3%	3.4%	1.5%	6692
Valledupar	6.4%	82.7%	4.2%	4.3%	2.4%	3942
Vichada	10.5%	71.7%	6.7%	7.8%	3.2%	803
Villavicencio	5.4%	87.8%	2.2%	2.9%	1.7%	4440
Yopal	8.0%	85.9%	3.1%	1.9%	1.1%	1576
Yumbo	6.3%	84.4%	4.0%	3.6%	1.6%	971
Zipaquirá	5.4%	89.9%	1.8%	1.8%	1.0%	994
Colombia	7.3%	82.9%	3.7%	4.1%	2.1%	380331

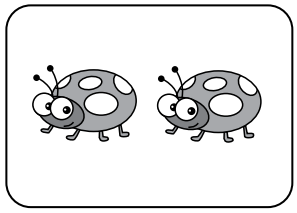
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 10.**

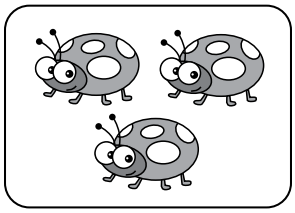
A.



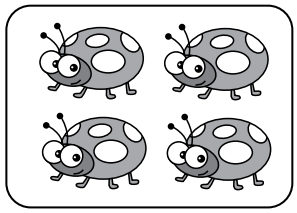
B.



C.



D.



- **Estructura**

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Reconocer el uso de números naturales en diferentes contextos.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	3.3%	4.1%	12.9%	74.3%	5.4%	747
Antioquia	2.2%	2.5%	6.0%	86.6%	2.6%	23291
Apartadó	3.5%	2.8%	7.6%	83.5%	2.5%	1416
Arauca	1.5%	1.5%	7.2%	88.4%	1.3%	2220
Armenia	1.1%	2.1%	7.6%	87.5%	1.7%	1807
Atlántico	3.2%	3.4%	8.8%	80.0%	4.6%	4407
Barrancabermeja	1.8%	1.9%	7.7%	87.5%	1.1%	1981
Barranquilla	1.9%	2.3%	7.8%	85.9%	2.1%	8932
Bello	1.7%	1.6%	5.7%	88.6%	2.4%	3124
Bogotá, D.C.	1.1%	1.2%	5.9%	90.0%	1.8%	49172
Bolívar	4.4%	5.3%	10.1%	75.3%	4.9%	8726
Boyacá	1.4%	1.6%	5.8%	90.0%	1.2%	6308
Bucaramanga	1.0%	1.0%	5.5%	90.8%	1.7%	3876
Buenaventura	3.3%	3.5%	9.2%	80.7%	3.3%	3796
Buga	2.0%	1.8%	8.1%	86.4%	1.8%	953
Caldas	1.8%	2.0%	6.2%	88.7%	1.4%	4143
Cali	1.5%	2.0%	7.2%	87.6%	1.7%	15520
Caquetá	1.8%	2.4%	7.0%	86.9%	1.9%	2536
Cartagena	2.7%	3.4%	8.3%	82.4%	3.2%	8484
Cartago	1.7%	1.3%	7.6%	88.1%	1.2%	985
Casanare	1.7%	2.1%	6.7%	88.0%	1.5%	2442
Cauca	2.4%	2.9%	7.7%	84.0%	3.1%	10046
Cesar	3.0%	3.0%	7.1%	84.5%	2.4%	6848
Chocó	4.8%	5.9%	10.6%	75.2%	3.5%	3675
Chía	0.9%	1.6%	5.2%	91.4%	1.0%	1018
Ciénaga	3.7%	4.0%	9.3%	80.6%	2.3%	1121
Cundinamarca	1.4%	1.2%	5.8%	90.3%	1.4%	11983
Córdoba	3.9%	4.1%	8.2%	80.4%	3.4%	10670
Cúcuta	1.3%	1.5%	7.1%	89.0%	1.1%	5718
Dosquebradas	1.5%	1.4%	5.4%	89.8%	1.9%	1396
Duitama	1.0%	1.1%	4.9%	92.5%	0.5%	994
Envigado	1.1%	1.4%	4.3%	91.1%	2.1%	1149
Facatativá	0.8%	0.8%	5.1%	91.6%	1.7%	1016
Florencia	2.3%	2.2%	7.2%	85.8%	2.4%	1579
Floridablanca	0.9%	0.8%	4.5%	92.6%	1.3%	1817
Fusagasugá	0.7%	1.8%	6.0%	89.2%	2.3%	897
Girardot	2.2%	3.1%	11.1%	82.2%	1.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	1.2%	2.0%	7.6%	87.8%	1.4%	1086
Guainía	2.9%	4.0%	19.2%	69.3%	4.6%	453
Guaviare	1.7%	2.2%	5.8%	88.6%	1.8%	726
Huila	1.6%	1.7%	7.1%	88.2%	1.4%	6269
Ibagué	1.1%	1.2%	6.2%	90.3%	1.3%	4048
Ipiales	0.7%	1.1%	6.4%	89.8%	2.0%	1122
Itagüí	2.3%	2.1%	7.3%	86.6%	1.7%	1490
Jamundí	2.4%	1.8%	7.9%	85.6%	2.2%	871
La Guajira	3.7%	4.8%	14.1%	73.2%	4.1%	3525
Lorica	2.7%	2.7%	8.0%	85.1%	1.6%	1091
Magangué	3.1%	4.9%	9.1%	78.4%	4.5%	1323
Magdalena	4.0%	4.7%	9.4%	77.0%	4.9%	7422
Maicao	3.4%	3.5%	13.7%	76.9%	2.5%	1712
Malambo	1.9%	3.0%	8.9%	83.2%	3.0%	934
Manizales	1.4%	1.1%	5.7%	90.5%	1.2%	2198
Medellín	1.6%	1.6%	6.0%	88.2%	2.5%	15605
Meta	2.2%	1.8%	7.0%	86.7%	2.3%	4238
Montería	2.6%	3.2%	7.9%	83.8%	2.5%	4135
Mosquera	0.5%	1.2%	5.4%	91.3%	1.6%	997
Nariño	2.2%	2.7%	6.1%	85.6%	3.4%	7001
Neiva	1.2%	1.4%	8.0%	87.9%	1.5%	2703
Norte de Santander	1.4%	2.0%	6.3%	88.8%	1.5%	6361
Palmira	1.4%	1.1%	7.0%	89.3%	1.2%	2342
Pasto	1.1%	1.4%	6.5%	90.0%	1.1%	2846
Pereira	1.5%	1.4%	5.2%	89.9%	1.9%	3341
Piedecuesta	1.2%	1.0%	4.4%	91.9%	1.5%	1149
Pitalito	1.0%	1.6%	6.6%	89.9%	1.0%	1232
Popayán	1.5%	1.4%	5.8%	89.4%	1.8%	2287
Putumayo	2.3%	2.1%	8.0%	86.0%	1.5%	3100
Quibdó	2.4%	3.4%	10.2%	79.0%	5.0%	1108
Quindío	1.8%	1.9%	6.9%	87.6%	1.8%	1714
Riohacha	3.2%	4.0%	10.6%	78.4%	3.8%	2171
Rionegro	1.7%	1.3%	4.2%	91.4%	1.4%	833
Risaralda	1.2%	2.0%	6.4%	87.5%	2.9%	1925
Sabaneta	2.1%	2.7%	3.2%	90.4%	1.6%	376
Sahagún	2.9%	2.6%	7.8%	84.0%	2.6%	908
San Andrés	1.9%	3.8%	8.5%	83.9%	1.9%	423
Santa Marta	2.6%	2.7%	9.0%	82.9%	2.8%	4318
Santander	1.6%	1.5%	5.6%	90.1%	1.1%	6310

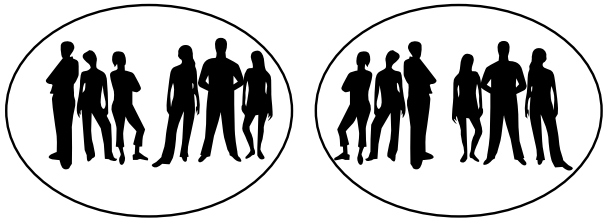
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	2.7%	3.4%	8.9%	82.4%	2.5%	2440
Soacha	1.5%	1.3%	6.2%	89.5%	1.5%	4202
Sogamoso	1.0%	1.1%	4.6%	92.3%	1.1%	1026
Soledad	1.8%	2.3%	7.9%	86.1%	1.9%	4026
Sucre	4.0%	4.8%	9.6%	78.4%	3.2%	6161
Tolima	1.9%	2.3%	8.9%	85.0%	2.0%	7274
Tuluá	1.4%	1.6%	6.6%	89.0%	1.5%	1652
Tumaco	5.5%	6.9%	11.1%	68.1%	8.5%	1940
Tunja	0.6%	0.9%	4.9%	92.7%	0.9%	1489
Turbo	4.3%	4.2%	9.0%	78.5%	3.9%	1827
Uribia	5.4%	8.0%	23.3%	54.8%	8.5%	1678
Valle del Cauca	1.7%	1.7%	7.5%	87.3%	1.8%	6692
Valledupar	1.9%	2.4%	7.1%	86.2%	2.4%	3942
Vichada	5.1%	2.9%	16.2%	72.5%	3.4%	803
Villavicencio	1.2%	1.1%	6.0%	89.9%	1.8%	4440
Yopal	1.6%	1.6%	7.2%	88.3%	1.3%	1576
Yumbo	2.1%	2.1%	7.6%	85.9%	2.4%	971
Zipaquirá	1.0%	1.0%	5.5%	90.9%	1.5%	994
Colombia	2.1%	2.3%	7.3%	86.0%	2.3%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 11.

En una fiesta, el payaso realizó una actividad con los invitados y formó grupos con el mismo número de integrantes. Observa.



¿De qué otra manera el payaso pudo haber formado los grupos, si quería que tuvieran el mismo número de integrantes?

A.

B.

C.

D.

• Estructura

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

- **Resultados a nivel de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	51.7%	16.1%	9.5%	18.5%	4.3%	747
Antioquia	63.0%	13.6%	8.2%	13.0%	2.1%	23291
Apartadó	62.5%	13.1%	9.5%	12.5%	2.4%	1416
Arauca	68.5%	13.9%	7.0%	9.9%	0.7%	2220
Armenia	68.3%	15.4%	6.9%	8.2%	1.2%	1807
Atlántico	62.5%	12.8%	8.6%	12.1%	4.0%	4407
Barrancabermeja	71.3%	12.2%	5.2%	10.0%	1.2%	1981
Barranquilla	67.1%	14.4%	7.2%	9.7%	1.6%	8932
Bello	67.4%	14.1%	7.5%	9.1%	1.9%	3124
Bogotá, D.C.	70.0%	14.1%	6.1%	8.3%	1.5%	49172
Bolívar	56.9%	13.3%	10.2%	16.1%	3.5%	8726
Boyacá	67.5%	12.2%	8.1%	11.5%	0.7%	6308
Bucaramanga	72.8%	13.3%	5.3%	7.4%	1.3%	3876
Buenaventura	64.6%	13.0%	7.2%	12.7%	2.5%	3796
Buga	67.8%	14.6%	6.9%	9.9%	0.8%	953
Caldas	67.8%	11.2%	7.9%	12.0%	1.1%	4143
Cali	67.9%	14.2%	7.0%	9.5%	1.3%	15520
Caquetá	62.7%	12.9%	8.3%	15.1%	1.0%	2536
Cartagena	66.5%	12.9%	6.7%	11.4%	2.5%	8484
Cartago	68.2%	12.3%	8.6%	9.6%	1.2%	985
Casanare	66.4%	12.8%	8.1%	11.3%	1.4%	2442
Cauca	65.6%	10.9%	8.6%	12.5%	2.4%	10046
Cesar	63.3%	11.4%	9.2%	14.2%	1.7%	6848
Chocó	62.7%	10.1%	9.6%	14.5%	3.0%	3675
Chía	71.1%	16.0%	5.0%	7.2%	0.7%	1018
Ciénaga	65.2%	12.8%	8.0%	11.9%	2.1%	1121
Cundinamarca	70.3%	13.2%	6.4%	9.2%	1.0%	11983
Córdoba	59.0%	12.6%	10.1%	15.8%	2.5%	10670
Cúcuta	69.0%	13.6%	6.6%	10.0%	0.9%	5718
Dosquebradas	64.9%	15.5%	7.4%	10.9%	1.3%	1396
Duitama	75.4%	13.7%	4.8%	5.9%	0.2%	994
Envigado	70.8%	12.2%	6.8%	8.4%	1.9%	1149
Facatativá	71.7%	14.0%	6.5%	6.9%	1.0%	1016
Florencia	62.4%	14.2%	8.7%	13.1%	1.5%	1579
Floridablanca	74.2%	13.4%	5.0%	6.6%	0.8%	1817
Fusagasugá	70.8%	13.0%	5.7%	8.6%	1.9%	897
Girardot	68.7%	12.2%	7.2%	10.3%	1.7%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	66.7%	14.9%	6.9%	10.8%	0.7%	1086
Guainía	60.0%	13.0%	6.4%	16.8%	3.8%	453
Guaviare	62.1%	14.5%	8.7%	13.8%	1.0%	726
Huila	66.7%	12.2%	8.1%	12.3%	0.7%	6269
Ibagué	74.0%	12.0%	5.7%	7.3%	1.0%	4048
Ipiales	71.1%	13.1%	6.6%	8.6%	0.6%	1122
Itagüí	66.4%	14.8%	7.7%	9.9%	1.2%	1490
Jamundí	66.9%	11.4%	8.0%	12.2%	1.5%	871
La Guajira	61.9%	12.9%	8.9%	12.8%	3.5%	3525
Lorica	65.6%	10.9%	9.3%	13.3%	0.8%	1091
Magangué	55.2%	12.8%	10.4%	17.6%	3.9%	1323
Magdalena	59.2%	11.9%	10.0%	15.5%	3.5%	7422
Maicao	58.3%	15.7%	9.3%	14.8%	1.9%	1712
Malambo	68.7%	10.0%	6.7%	12.5%	2.0%	934
Manizales	68.4%	13.3%	7.1%	9.9%	1.3%	2198
Medellín	65.6%	14.9%	7.5%	9.9%	2.1%	15605
Meta	65.8%	13.9%	7.3%	11.2%	1.8%	4238
Montería	62.6%	14.8%	7.6%	13.3%	1.7%	4135
Mosquera	72.0%	13.7%	5.4%	7.8%	1.0%	997
Nariño	67.0%	11.2%	7.4%	11.8%	2.6%	7001
Neiva	68.6%	13.5%	7.3%	9.6%	1.0%	2703
Norte de Santander	70.9%	10.8%	7.3%	9.9%	1.0%	6361
Palmira	69.9%	13.2%	7.1%	8.8%	1.0%	2342
Pasto	70.6%	13.2%	5.7%	9.5%	0.9%	2846
Pereira	69.3%	13.7%	6.9%	8.6%	1.4%	3341
Piedecuesta	72.4%	13.4%	5.3%	7.6%	1.3%	1149
Pitalito	70.3%	11.0%	7.5%	10.3%	0.8%	1232
Popayán	70.7%	12.0%	6.2%	9.9%	1.2%	2287
Putumayo	63.2%	13.6%	9.3%	12.8%	1.2%	3100
Quibdó	61.5%	13.8%	8.6%	12.3%	3.9%	1108
Quindío	63.6%	14.0%	8.9%	11.9%	1.6%	1714
Riohacha	61.1%	13.7%	8.6%	13.9%	2.7%	2171
Rionegro	68.7%	15.7%	6.4%	8.3%	1.0%	833
Risaralda	65.6%	12.4%	7.7%	12.1%	2.2%	1925
Sabaneta	68.6%	18.9%	6.1%	4.8%	1.6%	376
Sahagún	61.2%	12.0%	9.5%	15.6%	1.7%	908
San Andrés	60.0%	19.1%	7.8%	12.1%	0.9%	423
Santa Marta	65.1%	13.8%	7.9%	11.4%	1.9%	4318
Santander	70.8%	12.1%	6.7%	9.7%	0.7%	6310

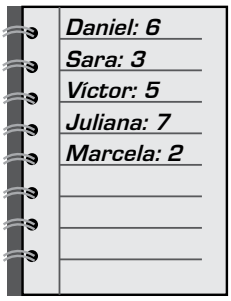
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	63.4%	14.8%	8.0%	12.0%	1.7%	2440
Soacha	69.3%	14.7%	6.1%	8.9%	1.0%	4202
Sogamoso	66.4%	15.8%	7.7%	9.6%	0.6%	1026
Soledad	68.9%	12.5%	7.1%	10.2%	1.3%	4026
Sucre	57.5%	13.6%	9.7%	16.9%	2.2%	6161
Tolima	67.5%	11.5%	8.1%	11.3%	1.5%	7274
Tuluá	69.5%	14.5%	5.4%	9.6%	1.0%	1652
Tumaco	53.7%	13.7%	9.2%	17.2%	6.2%	1940
Tunja	73.7%	12.3%	5.8%	7.4%	0.8%	1489
Turbo	56.3%	14.3%	10.8%	15.8%	2.8%	1827
Uribia	50.1%	14.4%	10.0%	19.0%	6.6%	1678
Valle del Cauca	68.4%	12.4%	7.0%	10.8%	1.3%	6692
Valledupar	66.8%	12.3%	7.3%	11.5%	2.2%	3942
Vichada	53.7%	12.3%	10.0%	20.7%	3.4%	803
Villavicencio	70.9%	13.8%	6.0%	8.0%	1.3%	4440
Yopal	68.0%	14.0%	6.9%	10.3%	0.9%	1576
Yumbo	67.8%	14.5%	6.7%	9.6%	1.4%	971
Zipaquirá	71.9%	14.5%	5.0%	7.6%	0.9%	994
Colombia	66.3%	13.2%	7.5%	11.1%	1.8%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 12.

Dayana registró en su cuaderno la cantidad de juegos que ganaron cinco de sus amigos.



¿Cuál tabla presenta la cantidad de juegos ganados, ordenados de menor a mayor?

A.

Sara	*Daniel*	*Víctor*	*Juliana*	*Marcela*
3	6	5	7	2

B.

Marcela	*Daniel*	*Víctor*	*Juliana*	*Sara*
2	6	5	7	3

C.

Marcela	*Sara*	*Víctor*	*Daniel*	*Juliana*
2	3	5	6	7

D.

Sara	*Víctor*	*Daniel*	*Marcela*	*Juliana*
3	5	6	2	7

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Clasificar y ordenar datos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

- **Resultados a nivel de Entidad Territorial certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	17.4%	13.8%	53.5%	10.3%	5.0%	747
Antioquia	16.5%	10.0%	64.3%	6.9%	2.4%	23291
Apartadó	18.6%	11.8%	61.0%	6.4%	2.1%	1416
Arauca	15.0%	9.7%	67.7%	6.7%	0.8%	2220
Armenia	14.4%	6.8%	71.6%	5.8%	1.5%	1807
Atlántico	18.0%	11.0%	59.2%	7.4%	4.3%	4407
Barrancabermeja	14.6%	7.7%	71.1%	5.1%	1.4%	1981
Barranquilla	16.2%	8.6%	67.7%	5.7%	1.7%	8932
Bello	14.4%	7.1%	72.0%	4.4%	2.0%	3124
Bogotá, D.C.	11.9%	5.3%	77.1%	4.2%	1.6%	49172
Bolívar	20.4%	14.5%	50.3%	10.7%	4.0%	8726
Boyacá	12.6%	7.7%	73.0%	5.8%	0.8%	6308
Bucaramanga	12.7%	5.4%	76.9%	3.6%	1.4%	3876
Buenaventura	17.3%	9.8%	63.2%	7.3%	2.4%	3796
Buga	14.4%	8.5%	70.8%	5.2%	1.0%	953
Caldas	15.6%	7.8%	68.8%	6.8%	1.1%	4143
Cali	14.5%	7.1%	71.8%	5.1%	1.4%	15520
Caquetá	17.3%	10.0%	61.4%	10.0%	1.3%	2536
Cartagena	16.1%	10.1%	64.8%	6.1%	3.0%	8484
Cartago	16.3%	7.2%	71.5%	3.9%	1.1%	985
Casanare	15.9%	9.4%	66.4%	6.6%	1.6%	2442
Cauca	16.9%	10.0%	62.7%	7.6%	2.8%	10046
Cesar	17.4%	12.1%	60.4%	8.1%	1.9%	6848
Chocó	16.4%	12.8%	58.9%	9.0%	2.9%	3675
Chía	9.1%	4.0%	81.7%	4.4%	0.7%	1018
Ciénaga	19.7%	11.5%	57.0%	9.7%	2.1%	1121
Cundinamarca	11.8%	6.3%	75.7%	4.9%	1.2%	11983
Córdoba	17.8%	13.2%	56.2%	10.0%	2.8%	10670
Cúcuta	14.9%	7.3%	72.4%	4.6%	0.9%	5718
Dosquebradas	16.7%	7.1%	69.1%	5.9%	1.1%	1396
Duitama	8.8%	4.4%	83.2%	3.4%	0.2%	994
Envigado	10.9%	4.9%	79.1%	3.0%	2.2%	1149
Facatativá	11.6%	4.3%	78.1%	4.5%	1.5%	1016
Florencia	19.8%	9.6%	61.6%	7.4%	1.6%	1579
Floridablanca	10.1%	5.4%	79.9%	4.0%	0.7%	1817
Fusagasugá	11.8%	5.0%	76.3%	4.7%	2.2%	897
Girardot	19.0%	10.5%	62.9%	5.8%	1.8%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	15.2%	7.1%	72.1%	5.0%	0.6%	1086
Guainía	18.8%	11.3%	54.7%	11.0%	4.2%	453
Guaviare	14.5%	12.7%	63.8%	8.1%	1.0%	726
Huila	16.0%	9.2%	66.3%	7.5%	1.0%	6269
Ibagué	12.9%	6.6%	75.0%	4.4%	1.1%	4048
Ipiales	14.7%	7.1%	71.4%	6.0%	0.8%	1122
Itagüí	16.2%	9.3%	69.1%	4.2%	1.3%	1490
Jamundí	17.7%	10.7%	61.1%	8.7%	1.8%	871
La Guajira	16.3%	11.9%	57.5%	10.4%	4.0%	3525
Lorica	15.5%	11.3%	63.9%	7.8%	1.6%	1091
Magangué	20.8%	12.8%	51.5%	11.2%	3.7%	1323
Magdalena	18.5%	13.6%	55.2%	8.8%	4.0%	7422
Maicao	16.9%	13.1%	58.2%	9.5%	2.2%	1712
Malambo	17.7%	7.8%	64.6%	7.6%	2.4%	934
Manizales	11.7%	6.3%	75.8%	5.0%	1.3%	2198
Medellín	15.0%	7.9%	69.6%	5.3%	2.2%	15605
Meta	16.4%	9.1%	66.5%	6.2%	1.8%	4238
Montería	17.0%	10.4%	62.5%	8.1%	2.1%	4135
Mosquera	9.3%	4.3%	81.4%	3.3%	1.6%	997
Nariño	14.2%	8.0%	68.6%	6.1%	3.1%	7001
Neiva	13.8%	8.8%	71.1%	5.1%	1.2%	2703
Norte de Santander	13.2%	7.4%	72.6%	5.5%	1.2%	6361
Palmira	12.5%	5.0%	76.9%	4.3%	1.3%	2342
Pasto	10.9%	6.9%	76.5%	4.5%	1.2%	2846
Pereira	13.8%	6.8%	72.8%	5.2%	1.5%	3341
Piedecuesta	11.1%	7.7%	76.2%	3.6%	1.6%	1149
Pitalito	15.4%	8.1%	70.0%	5.8%	0.6%	1232
Popayán	11.5%	6.3%	75.6%	5.2%	1.3%	2287
Putumayo	16.4%	10.7%	63.5%	7.8%	1.5%	3100
Quibdó	18.8%	10.8%	58.8%	7.5%	4.1%	1108
Quindío	15.7%	8.6%	66.9%	7.1%	1.7%	1714
Riohacha	18.1%	11.7%	58.6%	8.6%	3.0%	2171
Rionegro	12.0%	7.1%	75.4%	4.4%	1.1%	833
Risaralda	15.4%	7.3%	68.1%	6.9%	2.3%	1925
Sabaneta	11.2%	4.5%	77.4%	5.1%	1.9%	376
Sahagún	14.5%	11.0%	63.0%	8.7%	2.8%	908
San Andrés	20.6%	13.2%	54.6%	9.9%	1.7%	423
Santa Marta	19.2%	8.7%	63.8%	5.8%	2.4%	4318
Santander	13.8%	6.7%	72.8%	5.8%	1.0%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	16.9%	10.7%	62.8%	7.2%	2.4%	2440
Soacha	13.6%	6.6%	73.8%	4.6%	1.3%	4202
Sogamoso	12.4%	5.6%	78.0%	3.2%	0.9%	1026
Soledad	16.4%	8.2%	67.9%	5.8%	1.7%	4026
Sucre	19.4%	13.8%	54.2%	10.1%	2.5%	6161
Tolima	15.8%	9.9%	64.9%	7.4%	2.1%	7274
Tuluá	13.9%	8.0%	72.5%	4.7%	1.0%	1652
Tumaco	18.8%	14.5%	48.9%	10.5%	7.3%	1940
Tunja	9.5%	5.0%	80.8%	3.8%	0.8%	1489
Turbo	19.6%	13.4%	53.8%	9.5%	3.7%	1827
Uribia	15.7%	18.5%	46.7%	11.9%	7.2%	1678
Valle del Cauca	15.1%	8.4%	69.1%	6.0%	1.4%	6692
Valledupar	15.3%	9.3%	66.1%	6.8%	2.5%	3942
Vichada	17.3%	11.7%	53.7%	13.3%	4.0%	803
Villavicencio	13.7%	5.7%	74.4%	4.7%	1.5%	4440
Yopal	14.2%	7.9%	72.1%	5.3%	0.4%	1576
Yumbo	15.4%	8.1%	69.1%	5.6%	1.8%	971
Zipaquirá	9.2%	5.2%	81.4%	2.9%	1.3%	994
Colombia	15.1%	8.7%	68.0%	6.3%	2.0%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 13.

Un lustro es una medida de tiempo. La tabla muestra la cantidad de años equivalente a 1 y 2 lustros.

Cantidad de lustros	*Cantidad de años*
1	5
2	10

Tabla

¿Qué operación permite calcular la cantidad de años equivalente a 3 lustros?

A. 1 + 5

B. 3 x 5

C. 3 x 2

D. 10 + 2

• Estructura

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver y formular problemas sencillos de proporcionalidad directa.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	16.2%	34.9%	16.2%	27.3%	5.4%	747
Antioquia	17.8%	42.3%	14.4%	22.7%	2.7%	23291
Apartadó	20.6%	36.8%	15.6%	23.2%	3.7%	1416
Arauca	19.2%	42.0%	15.1%	22.6%	1.1%	2220
Armenia	19.7%	42.3%	14.3%	21.9%	1.9%	1807
Atlántico	17.0%	43.2%	14.0%	21.4%	4.4%	4407
Barrancabermeja	16.9%	49.9%	12.4%	19.5%	1.3%	1981
Barranquilla	18.7%	45.3%	13.4%	20.3%	2.4%	8932
Bello	20.1%	40.8%	14.6%	22.2%	2.3%	3124
Bogotá, D.C.	17.1%	47.7%	13.9%	19.2%	2.1%	49172
Bolívar	16.7%	38.5%	16.1%	24.0%	4.7%	8726
Boyacá	18.1%	45.1%	14.1%	21.5%	1.1%	6308
Bucaramanga	16.0%	49.6%	13.2%	19.1%	2.1%	3876
Buenaventura	16.4%	47.7%	13.6%	19.0%	3.2%	3796
Buga	21.3%	42.9%	14.6%	19.9%	1.3%	953
Caldas	17.3%	45.4%	13.3%	22.5%	1.5%	4143
Cali	18.6%	46.1%	13.0%	20.5%	1.8%	15520
Caquetá	16.4%	46.8%	12.3%	22.7%	1.9%	2536
Cartagena	16.6%	46.5%	14.3%	19.5%	3.2%	8484
Cartago	20.4%	40.0%	16.9%	21.5%	1.2%	985
Casanare	19.6%	43.3%	13.7%	21.5%	1.8%	2442
Cauca	12.8%	50.7%	12.2%	21.1%	3.1%	10046
Cesar	18.8%	43.5%	14.0%	21.6%	2.2%	6848
Chocó	14.4%	47.3%	15.2%	19.8%	3.3%	3675
Chía	18.4%	49.0%	13.9%	17.9%	0.9%	1018
Ciénaga	13.6%	48.6%	14.5%	20.0%	3.2%	1121
Cundinamarca	16.9%	49.4%	13.5%	18.7%	1.4%	11983
Córdoba	16.2%	41.4%	15.5%	23.8%	3.0%	10670
Cúcuta	19.5%	44.9%	13.3%	21.0%	1.3%	5718
Dosquebradas	19.2%	39.5%	16.3%	22.8%	2.1%	1396
Duitama	12.8%	59.0%	13.6%	14.2%	0.5%	994
Envigado	16.4%	47.8%	14.7%	18.5%	2.6%	1149
Facatativá	16.5%	45.1%	14.5%	22.4%	1.5%	1016
Florencia	18.6%	41.1%	14.3%	24.1%	1.9%	1579
Floridablanca	17.5%	52.7%	12.2%	16.5%	1.1%	1817
Fusagasugá	16.2%	53.3%	8.6%	19.6%	2.3%	897
Girardot	16.3%	43.1%	15.3%	23.5%	1.8%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	19.8%	44.2%	14.8%	19.6%	1.6%	1086
Guainía	9.7%	45.0%	15.0%	26.0%	4.2%	453
Guaviare	17.8%	43.7%	16.0%	21.5%	1.1%	726
Huila	17.0%	45.8%	13.2%	22.8%	1.1%	6269
Ibagué	16.8%	51.9%	13.1%	16.9%	1.3%	4048
Ipiales	18.2%	51.2%	13.6%	15.7%	1.2%	1122
Itagüí	21.2%	43.2%	14.9%	19.5%	1.3%	1490
Jamundí	18.0%	40.1%	13.5%	24.9%	3.4%	871
La Guajira	13.7%	47.9%	14.2%	20.1%	4.1%	3525
Lorica	14.6%	49.1%	13.4%	21.5%	1.4%	1091
Magangué	17.2%	40.2%	16.7%	21.9%	3.9%	1323
Magdalena	15.4%	44.1%	14.4%	21.8%	4.3%	7422
Maicao	17.4%	38.0%	16.0%	25.8%	2.7%	1712
Malambo	16.9%	49.8%	10.8%	19.6%	2.9%	934
Manizales	17.7%	45.6%	14.0%	20.9%	1.8%	2198
Medellín	20.1%	39.3%	14.9%	22.9%	2.8%	15605
Meta	18.3%	41.9%	13.7%	23.9%	2.2%	4238
Montería	17.2%	41.5%	15.6%	23.4%	2.3%	4135
Mosquera	18.6%	43.1%	14.0%	22.5%	1.8%	997
Nariño	14.2%	51.3%	12.3%	19.1%	3.1%	7001
Neiva	19.6%	44.0%	14.9%	20.3%	1.2%	2703
Norte de Santander	16.4%	50.7%	12.5%	18.6%	1.8%	6361
Palmira	18.1%	47.4%	13.1%	19.4%	2.0%	2342
Pasto	18.3%	45.5%	13.5%	21.2%	1.6%	2846
Pereira	19.8%	44.2%	13.0%	21.0%	2.1%	3341
Piedecuesta	15.8%	52.0%	13.0%	17.1%	2.0%	1149
Pitalito	17.0%	47.8%	13.1%	20.9%	1.3%	1232
Popayán	15.7%	50.4%	11.7%	20.6%	1.7%	2287
Putumayo	18.7%	43.5%	13.7%	22.0%	2.1%	3100
Quibdó	17.6%	41.8%	14.4%	22.4%	3.9%	1108
Quindío	20.1%	41.8%	14.0%	22.4%	1.7%	1714
Riohacha	16.4%	43.3%	15.9%	21.0%	3.4%	2171
Rionegro	18.8%	40.7%	14.5%	24.5%	1.4%	833
Risaralda	16.4%	47.7%	12.5%	20.5%	2.8%	1925
Sabaneta	15.7%	46.3%	16.8%	19.4%	1.9%	376
Sahagún	18.7%	41.4%	13.9%	23.6%	2.4%	908
San Andrés	22.0%	37.1%	13.9%	25.3%	1.7%	423
Santa Marta	18.2%	46.4%	13.2%	19.7%	2.5%	4318
Santander	15.5%	51.2%	12.6%	19.3%	1.2%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	18.0%	43.0%	14.8%	21.8%	2.5%	2440
Soacha	18.8%	44.3%	13.7%	21.6%	1.6%	4202
Sogamoso	17.8%	45.6%	16.0%	19.4%	1.2%	1026
Soledad	18.0%	47.8%	14.0%	18.1%	2.1%	4026
Sucre	15.7%	40.9%	15.1%	25.0%	3.3%	6161
Tolima	17.7%	46.4%	12.7%	21.2%	2.0%	7274
Tuluá	17.6%	44.4%	13.2%	22.9%	1.9%	1652
Tumaco	15.6%	36.1%	18.0%	23.0%	7.3%	1940
Tunja	15.2%	52.5%	13.2%	18.2%	0.8%	1489
Turbo	18.1%	38.0%	15.3%	25.3%	3.3%	1827
Uribia	12.2%	38.7%	18.3%	23.7%	7.1%	1678
Valle del Cauca	17.6%	46.8%	12.7%	21.2%	1.8%	6692
Valledupar	17.5%	45.0%	13.1%	21.9%	2.6%	3942
Vichada	16.2%	35.2%	16.8%	27.6%	4.1%	803
Villavicencio	18.3%	46.9%	12.8%	19.8%	2.2%	4440
Yopal	21.2%	43.0%	12.7%	22.1%	1.0%	1576
Yumbo	17.4%	44.2%	13.5%	23.0%	2.0%	971
Zipaquirá	15.6%	53.9%	14.1%	14.6%	1.8%	994
Colombia	17.3%	45.4%	13.9%	21.0%	2.4%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 14.

El precio de algunas láminas en una tienda se muestra en la tabla.

Número de láminas	*Precio*
1	$200
2	$400
?	$1.200

Tabla

¿Cuántas láminas en total se pueden comprar con $1.200?

A. 1
B. 2
C. 4
D. 6

• Estructura

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver y formular problemas sencillos de proporcionalidad directa.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	9.4%	13.5%	22.4%	48.7%	6.0%	747
Antioquia	9.5%	11.5%	21.6%	54.7%	2.7%	23291
Apartadó	10.6%	12.9%	23.0%	50.6%	3.0%	1416
Arauca	11.0%	12.6%	23.6%	51.6%	1.2%	2220
Armenia	8.0%	9.6%	25.1%	55.7%	1.7%	1807
Atlántico	10.5%	13.0%	20.7%	50.4%	5.3%	4407
Barrancabermeja	8.0%	9.6%	25.4%	55.5%	1.5%	1981
Barranquilla	8.9%	11.2%	25.0%	52.5%	2.4%	8932
Bello	7.8%	9.1%	24.4%	56.3%	2.4%	3124
Bogotá, D.C.	5.5%	6.9%	27.0%	58.5%	2.1%	49172
Bolívar	13.4%	15.9%	20.6%	45.0%	5.1%	8726
Boyacá	8.6%	10.7%	24.6%	55.1%	1.1%	6308
Bucaramanga	5.6%	7.5%	26.2%	58.7%	2.0%	3876
Buenaventura	10.6%	13.0%	20.7%	52.4%	3.2%	3796
Buga	7.5%	9.7%	27.0%	54.2%	1.7%	953
Caldas	8.2%	10.5%	22.4%	57.3%	1.5%	4143
Cali	7.8%	10.5%	25.1%	54.6%	2.0%	15520
Caquetá	9.3%	12.9%	19.4%	56.4%	2.0%	2536
Cartagena	8.9%	12.6%	22.3%	52.8%	3.4%	8484
Cartago	6.5%	11.7%	24.3%	56.4%	1.1%	985
Casanare	9.5%	12.9%	25.3%	50.0%	2.3%	2442
Cauca	8.7%	12.0%	18.9%	57.1%	3.4%	10046
Cesar	10.0%	12.6%	21.9%	53.2%	2.2%	6848
Chocó	10.7%	14.9%	19.4%	51.3%	3.8%	3675
Chía	4.6%	7.0%	32.6%	54.5%	1.3%	1018
Ciénaga	10.4%	12.5%	21.1%	53.3%	2.8%	1121
Cundinamarca	7.1%	8.2%	25.5%	57.8%	1.4%	11983
Córdoba	11.7%	14.4%	22.1%	48.6%	3.2%	10670
Cúcuta	8.3%	10.0%	26.3%	54.3%	1.2%	5718
Dosquebradas	7.0%	8.6%	23.3%	58.9%	2.2%	1396
Duitama	4.5%	4.3%	22.1%	68.4%	0.6%	994
Envigado	6.1%	5.9%	25.0%	60.5%	2.5%	1149
Facatativá	5.7%	6.3%	26.5%	59.7%	1.8%	1016
Florencia	8.5%	13.8%	26.0%	49.4%	2.3%	1579
Floridablanca	5.1%	6.5%	25.1%	62.0%	1.3%	1817
Fusagasugá	6.2%	8.2%	27.9%	55.3%	2.3%	897
Girardot	7.7%	11.2%	27.7%	51.4%	2.0%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	8.2%	11.8%	26.1%	52.9%	1.1%	1086
Guainía	10.4%	13.9%	21.9%	47.9%	6.0%	453
Guaviare	9.9%	12.3%	22.7%	53.6%	1.5%	726
Huila	10.5%	11.6%	23.6%	52.8%	1.5%	6269
Ibagué	6.2%	8.4%	25.5%	58.5%	1.3%	4048
Ipiales	7.6%	10.5%	23.2%	57.3%	1.4%	1122
Itagüí	8.0%	9.8%	26.5%	54.6%	1.1%	1490
Jamundí	7.9%	13.1%	24.5%	52.4%	2.2%	871
La Guajira	10.9%	13.2%	21.0%	50.2%	4.7%	3525
Lorica	9.3%	14.2%	18.7%	55.7%	2.0%	1091
Magangué	14.1%	16.9%	21.6%	42.7%	4.7%	1323
Magdalena	11.1%	14.4%	18.8%	50.7%	5.1%	7422
Maicao	11.7%	15.5%	23.4%	46.4%	3.0%	1712
Malambo	10.2%	11.3%	18.3%	57.5%	2.7%	934
Manizales	7.0%	7.7%	27.2%	56.3%	1.8%	2198
Medellín	7.8%	9.9%	24.4%	55.0%	2.9%	15605
Meta	9.7%	11.7%	24.1%	52.0%	2.5%	4238
Montería	11.8%	14.1%	24.8%	46.7%	2.7%	4135
Mosquera	4.3%	8.3%	28.0%	57.6%	1.8%	997
Nariño	8.9%	11.0%	20.5%	56.2%	3.5%	7001
Neiva	8.9%	10.5%	28.0%	51.2%	1.4%	2703
Norte de Santander	8.0%	9.7%	22.1%	58.9%	1.4%	6361
Palmira	7.3%	9.9%	27.0%	54.2%	1.7%	2342
Pasto	7.2%	9.7%	25.7%	56.1%	1.3%	2846
Pereira	6.4%	7.7%	24.4%	59.4%	2.1%	3341
Piedecuesta	5.8%	5.7%	26.7%	60.3%	1.4%	1149
Pitalito	8.3%	11.0%	23.7%	56.0%	1.1%	1232
Popayán	6.4%	9.5%	22.3%	59.9%	1.9%	2287
Putumayo	10.4%	13.0%	22.3%	52.4%	1.9%	3100
Quibdó	8.7%	14.1%	22.7%	49.1%	5.5%	1108
Quindío	9.2%	10.4%	23.5%	54.8%	2.0%	1714
Riohacha	11.4%	13.7%	23.0%	48.5%	3.4%	2171
Rionegro	6.4%	8.6%	25.3%	58.1%	1.6%	833
Risaralda	7.4%	9.7%	21.2%	58.9%	2.7%	1925
Sabaneta	4.5%	7.7%	24.7%	61.2%	1.9%	376
Sahagún	10.9%	12.4%	23.7%	50.6%	2.4%	908
San Andrés	10.6%	14.4%	29.3%	43.5%	2.1%	423
Santa Marta	9.0%	11.1%	22.8%	54.3%	2.8%	4318
Santander	7.9%	9.8%	24.1%	57.0%	1.2%	6310

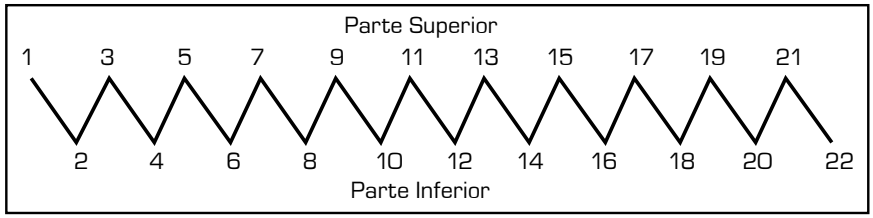
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.9%	12.7%	24.8%	50.4%	2.3%	2440
Soacha	7.0%	9.4%	27.1%	54.9%	1.6%	4202
Sogamoso	7.0%	8.3%	25.8%	58.0%	0.9%	1026
Soledad	9.4%	8.7%	24.3%	55.2%	2.4%	4026
Sucre	13.1%	15.4%	21.1%	47.3%	3.1%	6161
Tolima	9.2%	11.7%	22.9%	54.0%	2.2%	7274
Tuluá	6.8%	9.4%	26.2%	56.1%	1.5%	1652
Tumaco	13.8%	15.3%	20.7%	41.7%	8.6%	1940
Tunja	4.0%	6.0%	27.5%	61.7%	0.8%	1489
Turbo	13.4%	15.2%	20.3%	47.5%	3.6%	1827
Uribia	10.7%	17.3%	16.6%	47.3%	8.1%	1678
Valle del Cauca	9.5%	11.1%	23.7%	53.8%	2.0%	6692
Valledupar	9.7%	10.9%	21.2%	55.3%	3.0%	3942
Vichada	11.8%	15.7%	24.7%	44.3%	3.5%	803
Villavicencio	6.6%	9.3%	25.2%	56.7%	2.1%	4440
Yopal	8.6%	9.3%	27.2%	53.2%	1.6%	1576
Yumbo	9.5%	8.7%	23.0%	57.1%	1.9%	971
Zipaquirá	5.6%	6.1%	25.3%	61.6%	1.4%	994
Colombia	8.6%	10.7%	23.7%	54.5%	2.5%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 15.

Fíjate en la parte inferior de la figura.



Figura

En la parte inferior todos los números marcados son

A. menores que 14.
B. mayores que 11.
C. múltiplos de 3.
D. múltiplos de 2.

• Estructura

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Usar operaciones y propiedades de los números naturales para establecer relaciones entre ellos en situaciones específicas.
Nivel de desempeño	Avanzado
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	27.2%	30.3%	10.7%	26.5%	5.4%	747
Antioquia	22.8%	26.6%	8.6%	39.2%	2.8%	23291
Apartadó	24.9%	29.8%	9.1%	33.9%	2.3%	1416
Arauca	23.4%	29.1%	7.6%	38.7%	1.3%	2220
Armenia	20.0%	27.4%	8.3%	42.0%	2.2%	1807
Atlántico	20.5%	24.5%	10.3%	39.8%	4.9%	4407
Barrancabermeja	19.4%	24.3%	7.6%	47.1%	1.5%	1981
Barranquilla	19.8%	25.2%	9.6%	42.9%	2.5%	8932
Bello	19.4%	28.0%	9.0%	40.7%	2.9%	3124
Bogotá, D.C.	17.3%	24.7%	7.3%	48.4%	2.2%	49172
Bolívar	24.3%	26.7%	11.6%	32.7%	4.8%	8726
Boyacá	19.2%	24.9%	7.6%	46.9%	1.5%	6308
Bucaramanga	17.3%	23.2%	7.1%	50.6%	1.8%	3876
Buenaventura	21.1%	21.5%	8.7%	45.1%	3.5%	3796
Buga	20.0%	27.9%	10.9%	39.2%	1.9%	953
Caldas	21.5%	26.9%	8.6%	41.3%	1.7%	4143
Cali	20.3%	28.1%	8.2%	41.4%	2.1%	15520
Caquetá	23.1%	25.4%	7.7%	42.0%	1.8%	2536
Cartagena	19.9%	23.4%	8.8%	44.5%	3.4%	8484
Cartago	21.8%	28.3%	10.4%	37.8%	1.7%	985
Casanare	22.6%	28.1%	9.0%	38.3%	1.9%	2442
Cauca	19.2%	21.5%	7.5%	48.7%	3.2%	10046
Cesar	22.1%	25.7%	9.7%	40.4%	2.1%	6848
Chocó	21.9%	22.4%	10.1%	42.3%	3.3%	3675
Chía	14.9%	22.8%	8.9%	52.4%	1.0%	1018
Ciénaga	21.5%	21.8%	10.8%	43.3%	2.7%	1121
Cundinamarca	17.6%	25.3%	7.8%	47.7%	1.6%	11983
Córdoba	23.6%	26.4%	11.5%	35.2%	3.3%	10670
Cúcuta	19.1%	26.0%	8.7%	44.8%	1.4%	5718
Dosquebradas	22.1%	24.9%	8.5%	42.8%	1.8%	1396
Duitama	11.9%	19.0%	6.8%	61.8%	0.5%	994
Envigado	14.1%	20.5%	6.4%	56.3%	2.7%	1149
Facatativá	17.0%	26.3%	7.3%	47.3%	2.1%	1016
Florencia	23.9%	32.2%	9.6%	32.1%	2.1%	1579
Floridablanca	14.3%	22.1%	8.0%	54.2%	1.4%	1817
Fusagasugá	14.0%	27.2%	9.1%	47.0%	2.6%	897
Girardot	21.8%	33.3%	8.8%	34.3%	1.8%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	20.3%	31.2%	11.0%	36.3%	1.2%	1086
Guainía	26.7%	24.5%	9.3%	35.3%	4.2%	453
Guaviare	23.3%	28.4%	9.0%	37.5%	1.9%	726
Huila	22.1%	27.2%	8.4%	40.8%	1.4%	6269
Ibagué	17.9%	25.5%	7.4%	47.9%	1.3%	4048
Ipiales	19.4%	23.0%	8.7%	47.4%	1.4%	1122
Itagüí	19.9%	25.4%	8.9%	44.1%	1.7%	1490
Jamundí	20.4%	28.7%	10.0%	37.8%	3.1%	871
La Guajira	20.3%	21.7%	10.8%	42.7%	4.5%	3525
Lorica	19.6%	23.6%	11.6%	43.6%	1.6%	1091
Magangué	23.1%	27.7%	11.3%	33.1%	4.8%	1323
Magdalena	21.8%	23.6%	9.7%	40.2%	4.8%	7422
Maicao	25.1%	26.9%	11.9%	32.4%	3.7%	1712
Malambo	22.6%	20.3%	7.3%	46.7%	3.1%	934
Manizales	18.9%	23.2%	8.4%	47.5%	2.0%	2198
Medellín	21.5%	29.2%	8.9%	37.4%	3.0%	15605
Meta	24.3%	28.5%	9.1%	35.7%	2.4%	4238
Montería	23.1%	26.9%	11.0%	36.3%	2.8%	4135
Mosquera	17.2%	26.8%	9.8%	44.2%	2.0%	997
Nariño	18.9%	21.4%	7.0%	49.6%	3.1%	7001
Neiva	20.7%	29.6%	8.3%	39.8%	1.6%	2703
Norte de Santander	17.8%	22.8%	7.9%	49.9%	1.6%	6361
Palmira	18.6%	26.6%	9.0%	43.6%	2.2%	2342
Pasto	18.7%	28.4%	8.3%	43.1%	1.5%	2846
Pereira	21.0%	26.6%	8.0%	42.2%	2.1%	3341
Piedecuesta	14.4%	23.8%	7.6%	52.8%	1.5%	1149
Pitalito	19.9%	27.2%	7.6%	44.3%	1.0%	1232
Popayán	17.9%	24.7%	7.8%	47.9%	1.6%	2287
Putumayo	21.6%	27.9%	9.5%	38.8%	2.2%	3100
Quibdó	23.2%	24.7%	9.5%	37.6%	5.0%	1108
Quindío	23.2%	28.1%	7.8%	38.9%	2.0%	1714
Riohacha	21.3%	25.8%	10.8%	38.2%	3.9%	2171
Rionegro	18.1%	24.8%	6.4%	49.3%	1.3%	833
Risaralda	21.5%	24.5%	7.4%	43.8%	2.8%	1925
Sabaneta	16.5%	25.3%	11.7%	45.2%	1.3%	376
Sahagún	22.0%	23.1%	11.6%	41.2%	2.1%	908
San Andrés	28.4%	30.0%	11.1%	27.9%	2.6%	423
Santa Marta	21.9%	25.4%	9.3%	40.6%	2.9%	4318
Santander	17.0%	24.0%	8.0%	49.8%	1.3%	6310

Continúa en la siguiente página

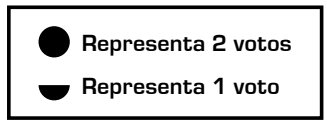
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	21.9%	26.1%	11.6%	38.2%	2.2%	2440
Soacha	21.5%	27.0%	8.2%	41.6%	1.6%	4202
Sogamoso	16.9%	25.1%	8.8%	47.8%	1.5%	1026
Soledad	18.6%	24.4%	8.8%	45.8%	2.4%	4026
Sucre	23.9%	27.4%	11.3%	33.9%	3.4%	6161
Tolima	20.9%	25.3%	8.7%	42.9%	2.2%	7274
Tuluá	21.1%	28.3%	8.5%	40.4%	1.7%	1652
Tumaco	22.4%	26.0%	12.1%	31.2%	8.3%	1940
Tunja	17.4%	22.3%	6.1%	52.8%	1.4%	1489
Turbo	25.9%	27.3%	11.1%	31.9%	3.9%	1827
Uribia	21.0%	26.5%	14.9%	30.6%	7.0%	1678
Valle del Cauca	20.9%	27.8%	9.0%	40.3%	2.0%	6692
Valledupar	21.4%	24.3%	8.4%	42.5%	3.4%	3942
Vichada	26.4%	27.5%	10.0%	31.9%	4.2%	803
Villavicencio	18.7%	26.9%	7.5%	44.4%	2.5%	4440
Yopal	20.0%	28.4%	9.3%	40.9%	1.5%	1576
Yumbo	23.9%	28.3%	6.9%	39.2%	1.6%	971
Zipaquirá	15.2%	20.7%	6.8%	55.7%	1.5%	994
Colombia	20.3%	25.7%	8.7%	42.7%	2.6%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

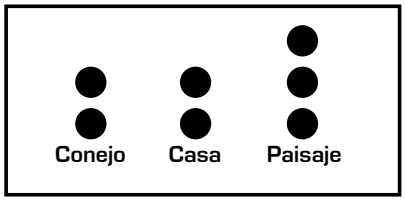
• Pregunta 16.

Algunos niños votaron por el dibujo que más les gustó en la clase de Artes, y estos fueron los resultados: **Conejo, casa, casa, paisaje**.

¿Cuál de las gráficas representa el número de votos obtenido por cada dibujo?

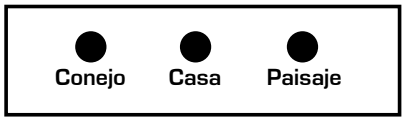


A.

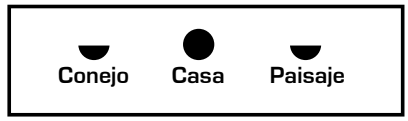


B.

C.



D.



• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Avanzado
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	43.0%	9.5%	17.0%	24.1%	6.4%	747
Antioquia	39.6%	7.3%	12.2%	38.0%	3.0%	23291
Apartadó	35.4%	9.3%	13.8%	38.5%	3.0%	1416
Arauca	39.4%	6.1%	12.5%	40.5%	1.5%	2220
Armenia	29.4%	7.0%	10.7%	50.9%	1.9%	1807
Atlántico	36.0%	8.3%	11.5%	38.8%	5.4%	4407
Barrancabermeja	31.4%	6.2%	11.2%	49.5%	1.7%	1981
Barranquilla	33.3%	7.1%	11.7%	45.0%	3.0%	8932
Bello	34.7%	5.1%	11.0%	46.0%	3.2%	3124
Bogotá, D.C.	29.5%	4.5%	9.0%	54.4%	2.5%	49172
Bolívar	39.9%	10.7%	14.0%	30.0%	5.4%	8726
Boyacá	33.3%	6.5%	11.7%	46.8%	1.7%	6308
Bucaramanga	27.7%	4.7%	9.4%	56.0%	2.2%	3876
Buenaventura	38.4%	7.9%	10.8%	39.1%	3.7%	3796
Buga	34.5%	4.3%	10.0%	49.3%	1.9%	953
Caldas	41.1%	6.0%	11.3%	39.7%	1.9%	4143
Cali	33.3%	5.4%	10.4%	48.6%	2.3%	15520
Caquetá	45.3%	7.6%	11.9%	33.5%	1.8%	2536
Cartagena	35.9%	7.0%	11.4%	41.9%	3.8%	8484
Cartago	30.7%	6.3%	12.1%	48.8%	2.1%	985
Casanare	38.2%	7.2%	12.2%	40.4%	2.1%	2442
Cauca	41.0%	6.9%	9.6%	38.9%	3.6%	10046
Cesar	40.5%	7.8%	12.9%	36.1%	2.7%	6848
Chocó	39.5%	9.4%	13.8%	33.7%	3.6%	3675
Chía	25.3%	3.0%	9.2%	61.5%	0.9%	1018
Ciénaga	37.0%	8.6%	14.1%	37.5%	2.9%	1121
Cundinamarca	32.1%	5.7%	11.0%	49.6%	1.6%	11983
Córdoba	41.8%	9.2%	13.7%	31.5%	3.8%	10670
Cúcuta	31.8%	5.8%	11.1%	49.6%	1.7%	5718
Dosquebradas	38.7%	4.7%	10.6%	43.9%	2.1%	1396
Duitama	25.5%	3.8%	10.3%	60.3%	0.2%	994
Envigado	25.2%	5.0%	9.1%	58.1%	2.4%	1149
Facatativá	28.6%	4.9%	8.9%	55.8%	1.8%	1016
Florencia	43.7%	6.6%	11.4%	36.0%	2.3%	1579
Floridablanca	24.7%	4.2%	8.1%	61.4%	1.6%	1817
Fusagasugá	28.4%	3.7%	11.4%	53.5%	3.0%	897
Girardot	33.7%	8.7%	11.0%	43.8%	2.8%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	31.1%	7.4%	13.7%	46.8%	1.0%	1086
Guainía	47.2%	9.7%	10.4%	28.3%	4.4%	453
Guaviare	46.0%	7.2%	10.3%	34.6%	1.9%	726
Huila	38.7%	6.1%	11.4%	42.0%	1.9%	6269
Ibagué	29.8%	5.4%	9.0%	54.2%	1.6%	4048
Ipiales	30.0%	6.4%	13.0%	49.6%	1.0%	1122
Itagüí	29.9%	7.1%	13.1%	48.1%	1.7%	1490
Jamundí	35.8%	8.5%	10.4%	42.4%	2.9%	871
La Guajira	36.6%	10.0%	13.1%	35.5%	4.9%	3525
Lorica	36.4%	8.2%	11.8%	41.1%	2.6%	1091
Magangué	38.8%	9.5%	16.9%	29.8%	5.1%	1323
Magdalena	40.6%	9.6%	12.7%	31.8%	5.3%	7422
Maicao	39.6%	10.0%	13.5%	33.1%	3.8%	1712
Malambo	38.4%	6.6%	12.1%	39.4%	3.4%	934
Manizales	32.5%	4.0%	10.4%	51.0%	2.0%	2198
Medellín	35.6%	6.1%	11.7%	43.1%	3.4%	15605
Meta	41.1%	6.7%	11.7%	37.8%	2.8%	4238
Montería	36.9%	8.2%	13.3%	38.6%	3.0%	4135
Mosquera	30.6%	5.2%	8.9%	53.5%	1.8%	997
Nariño	39.1%	6.1%	9.6%	41.6%	3.7%	7001
Neiva	34.3%	5.2%	11.3%	47.2%	2.0%	2703
Norte de Santander	37.3%	6.1%	10.0%	44.9%	1.7%	6361
Palmira	29.7%	5.2%	10.0%	52.9%	2.1%	2342
Pasto	31.4%	5.3%	10.0%	51.5%	1.7%	2846
Pereira	34.8%	4.7%	9.8%	47.9%	2.7%	3341
Piedecuesta	26.1%	4.5%	10.1%	57.8%	1.5%	1149
Pitalito	36.0%	6.3%	10.7%	45.5%	1.5%	1232
Popayán	29.7%	5.6%	9.7%	52.9%	2.1%	2287
Putumayo	41.0%	6.9%	11.9%	37.6%	2.5%	3100
Quibdó	41.2%	8.8%	10.3%	33.8%	6.0%	1108
Quindío	40.1%	5.3%	11.7%	40.7%	2.2%	1714
Riohacha	42.3%	7.9%	11.8%	33.6%	4.4%	2171
Rionegro	33.5%	7.1%	8.6%	49.3%	1.4%	833
Risaralda	43.5%	5.6%	10.1%	37.8%	3.0%	1925
Sabaneta	28.7%	4.5%	9.0%	55.3%	2.4%	376
Sahagún	35.7%	8.6%	14.9%	38.2%	2.6%	908
San Andrés	37.8%	7.6%	16.3%	36.4%	1.9%	423
Santa Marta	37.4%	6.2%	10.8%	42.2%	3.4%	4318
Santander	33.0%	5.5%	10.8%	49.2%	1.4%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	32.6%	8.7%	13.2%	42.8%	2.7%	2440
Soacha	33.9%	5.6%	11.1%	47.4%	1.9%	4202
Sogamoso	23.4%	6.6%	11.5%	57.0%	1.5%	1026
Soledad	35.4%	5.7%	9.8%	46.7%	2.3%	4026
Sucre	40.0%	9.1%	14.5%	32.3%	4.0%	6161
Tolima	38.4%	6.9%	12.0%	40.1%	2.5%	7274
Tuluá	34.4%	6.1%	10.3%	47.4%	1.8%	1652
Tumaco	40.8%	10.1%	14.2%	25.8%	9.1%	1940
Tunja	23.4%	4.5%	8.8%	61.8%	1.5%	1489
Turbo	39.6%	10.0%	15.1%	31.1%	4.2%	1827
Uribia	39.2%	12.8%	13.6%	25.4%	9.0%	1678
Valle del Cauca	38.3%	6.2%	10.5%	43.0%	2.1%	6692
Valledupar	37.2%	6.4%	10.5%	43.0%	2.9%	3942
Vichada	45.0%	8.3%	14.3%	28.5%	3.9%	803
Villavicencio	32.0%	5.4%	10.6%	49.7%	2.2%	4440
Yopal	35.0%	5.5%	11.4%	46.2%	1.9%	1576
Yumbo	34.0%	5.1%	12.4%	46.4%	2.1%	971
Zipaquirá	23.1%	3.4%	9.0%	62.6%	1.9%	994
Colombia	35.5%	6.6%	11.2%	43.9%	2.8%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 17.

Al comenzar el año, Daniel tenía 8 lápices y ha perdido 5. ¿Cuántos lápices tiene ahora?

A. 3
B. 5
C. 8
D. 13

• Estructura

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	81.0%	5.4%	3.3%	7.4%	2.9%	747
Antioquia	88.9%	3.0%	1.4%	4.9%	1.9%	23293
Apartadó	85.2%	4.1%	1.9%	6.7%	2.1%	1416
Arauca	89.8%	2.6%	1.3%	5.7%	0.6%	2220
Armenia	89.9%	2.1%	1.1%	5.9%	1.0%	1807
Atlántico	83.7%	4.3%	2.5%	6.6%	2.9%	4408
Barrancabermeja	91.5%	2.9%	1.0%	3.9%	0.8%	1981
Barranquilla	90.1%	2.6%	1.3%	4.7%	1.3%	8932
Bello	92.4%	2.3%	0.8%	3.0%	1.5%	3125
Bogotá, D.C.	93.3%	1.9%	0.6%	3.1%	1.1%	49170
Bolívar	79.3%	5.0%	3.5%	8.6%	3.5%	8729
Boyacá	91.3%	2.5%	1.1%	4.5%	0.6%	6308
Bucaramanga	92.6%	1.7%	0.6%	4.3%	0.9%	3875
Buenaventura	86.5%	4.4%	1.7%	5.1%	2.3%	3798
Buga	90.2%	3.0%	0.7%	5.1%	0.8%	953
Caldas	89.9%	3.2%	1.0%	5.1%	0.9%	4142
Cali	91.3%	2.6%	0.9%	4.3%	0.9%	15522

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Caquetá	90.1%	3.6%	0.9%	3.9%	1.5%	2537
Cartagena	86.7%	3.3%	2.3%	5.9%	1.8%	8481
Cartago	91.2%	2.3%	0.3%	5.1%	1.1%	985
Casanare	90.6%	3.4%	1.2%	3.8%	0.9%	2442
Cauca	88.5%	3.6%	1.4%	4.4%	2.2%	10047
Cesar	86.9%	4.0%	2.0%	5.7%	1.3%	6848
Chocó	82.0%	5.8%	3.0%	6.7%	2.4%	3674
Chía	93.9%	1.5%	0.7%	3.4%	0.5%	1018
Ciénaga	82.4%	5.4%	3.4%	6.1%	2.6%	1122
Cundinamarca	92.2%	2.2%	0.8%	3.8%	0.9%	11983
Córdoba	84.7%	4.2%	2.4%	6.4%	2.4%	10669
Cúcuta	92.1%	1.5%	0.7%	5.2%	0.5%	5717
Dosquebradas	93.3%	1.3%	0.7%	4.0%	0.7%	1396
Duitama	95.3%	1.0%	0.4%	3.1%	0.2%	994
Envigado	95.0%	1.4%	0.3%	1.8%	1.6%	1149
Facatativá	93.4%	1.9%	0.8%	3.1%	0.9%	1016
Florencia	89.6%	3.0%	1.4%	4.7%	1.3%	1579
Floridablanca	94.3%	1.9%	0.3%	2.8%	0.7%	1817
Fusagasugá	91.9%	2.1%	1.0%	3.7%	1.3%	899
Girardot	88.9%	4.1%	1.3%	4.6%	1.1%	712
Girón	91.9%	2.1%	0.9%	4.1%	1.0%	1086
Guainía	81.7%	4.0%	3.5%	8.8%	2.0%	453
Guaviare	89.1%	3.0%	1.8%	4.8%	1.2%	726
Huila	90.1%	3.1%	1.2%	4.8%	0.9%	6272
Ibagué	93.1%	2.0%	0.8%	3.4%	0.8%	4048
Ipiales	92.1%	2.9%	0.4%	4.1%	0.6%	1122
Itagüí	93.7%	2.7%	0.3%	2.5%	0.8%	1490
Jamundí	88.4%	3.7%	1.0%	5.3%	1.6%	870
La Guajira	82.8%	4.7%	2.6%	7.3%	2.5%	3523
Lorica	84.2%	5.0%	2.7%	6.8%	1.3%	1091
Magangué	80.6%	4.5%	3.2%	8.2%	3.5%	1324
Magdalena	82.2%	4.5%	3.1%	7.1%	3.1%	7423
Maicao	84.5%	3.8%	3.1%	6.9%	1.8%	1712
Malambo	84.8%	4.0%	1.5%	7.0%	2.8%	933
Manizales	93.4%	1.5%	0.5%	3.9%	0.7%	2198
Medellín	91.6%	2.4%	0.9%	3.5%	1.6%	15603
Meta	90.3%	2.6%	1.2%	4.6%	1.5%	4237
Montería	86.7%	3.8%	1.6%	6.6%	1.3%	4136
Mosquera	93.2%	1.9%	0.3%	3.8%	0.8%	997

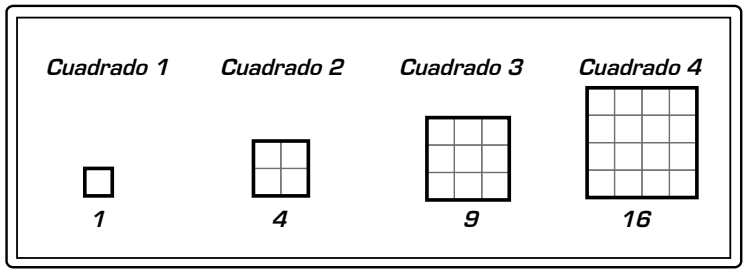
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Nariño	89.4%	3.1%	1.3%	4.0%	2.3%	6999
Neiva	90.9%	2.1%	0.8%	5.7%	0.6%	2702
Norte de Santander	91.4%	2.5%	1.0%	4.1%	1.0%	6361
Palmira	91.6%	2.3%	0.7%	4.4%	1.0%	2342
Pasto	92.3%	2.0%	0.5%	4.4%	0.9%	2847
Pereira	92.2%	2.4%	1.0%	3.3%	1.1%	3341
Piedecuesta	92.1%	2.2%	0.6%	3.9%	1.2%	1148
Pitalito	91.2%	2.9%	1.0%	4.1%	0.8%	1232
Popayán	93.6%	1.4%	0.5%	3.8%	0.7%	2287
Putumayo	88.0%	2.9%	1.3%	6.6%	1.2%	3100
Quibdó	84.1%	5.6%	1.3%	6.1%	2.9%	1106
Quindío	90.2%	2.9%	1.1%	4.7%	1.2%	1713
Riohacha	87.2%	3.9%	2.0%	5.1%	1.8%	2171
Rionegro	93.0%	1.8%	0.8%	3.5%	0.8%	833
Risaralda	89.8%	3.3%	0.8%	4.2%	1.9%	1923
Sabaneta	93.6%	2.1%	0.8%	2.1%	1.3%	376
Sahagún	87.3%	2.8%	2.1%	5.8%	2.0%	908
San Andrés	91.5%	2.4%	1.9%	3.3%	0.9%	423
Santa Marta	88.2%	3.6%	1.3%	5.2%	1.7%	4318
Santander	92.2%	2.1%	1.0%	4.0%	0.6%	6310
Sincelejo	87.0%	3.4%	1.5%	6.6%	1.4%	2439
Soacha	92.4%	2.4%	0.9%	3.4%	1.0%	4203
Sogamoso	92.2%	2.1%	0.5%	4.6%	0.6%	1026
Soledad	90.1%	2.9%	1.4%	4.3%	1.3%	4027
Sucre	80.9%	5.0%	3.6%	8.7%	1.8%	6165
Tolima	88.5%	3.5%	1.7%	4.9%	1.4%	7271
Tuluá	92.8%	2.0%	0.8%	3.1%	1.2%	1652
Tumaco	79.4%	5.2%	3.9%	6.7%	4.8%	1940
Tunja	94.4%	1.5%	0.5%	3.3%	0.3%	1489
Turbo	82.8%	4.8%	3.1%	6.4%	3.0%	1827
Uribia	69.9%	6.7%	6.6%	10.1%	6.7%	1677
Valle del Cauca	90.2%	3.1%	0.9%	4.6%	1.1%	6692
Valledupar	89.2%	2.9%	1.6%	4.4%	1.8%	3944
Vichada	76.7%	7.1%	4.2%	8.3%	3.6%	803
Villavicencio	92.6%	2.1%	0.7%	3.5%	1.2%	4440
Yopal	92.3%	2.9%	1.0%	3.1%	0.8%	1576
Yumbo	90.8%	3.7%	1.0%	3.7%	0.7%	971
Zipaquirá	92.4%	1.5%	0.7%	4.7%	0.7%	994
Colombia	89.4%	2.9%	1.4%	4.7%	1.5%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 18.

En el tablero, cada vez que la maestra dibuja un cuadrado escribe un número debajo.



En cada cuadrado, el número de abajo representa

A. la posición correspondiente.
B. la medida de un lado.
C. la cantidad de lados.
D. la cantidad de cuadritos que tiene.

• Estructura

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.6%	9.8%	12.9%	62.8%	4.0%	747
Antioquia	10.1%	8.1%	8.2%	71.2%	2.4%	23293
Apartadó	11.2%	9.0%	10.6%	66.9%	2.2%	1416
Arauca	8.8%	6.9%	8.2%	74.9%	1.2%	2220
Armenia	9.7%	5.9%	6.9%	76.3%	1.2%	1807
Atlántico	9.6%	8.0%	9.9%	68.5%	4.0%	4408
Barrancabermeja	9.3%	6.7%	5.2%	77.5%	1.3%	1981
Barranquilla	8.4%	6.5%	8.3%	75.1%	1.7%	8932
Bello	10.0%	5.7%	6.3%	75.8%	2.1%	3125
Bogotá, D.C.	7.6%	5.2%	6.2%	79.6%	1.3%	49170
Bolívar	9.9%	11.9%	12.1%	62.3%	3.9%	8729
Boyacá	8.1%	6.9%	8.2%	76.0%	0.8%	6308
Bucaramanga	7.3%	4.8%	5.8%	81.0%	1.0%	3875
Buenaventura	10.6%	8.5%	8.5%	69.6%	2.9%	3798
Buga	9.0%	5.6%	7.8%	76.3%	1.4%	953
Caldas	9.9%	7.6%	8.4%	72.8%	1.3%	4142
Cali	9.4%	6.1%	7.0%	76.1%	1.4%	15522
Caquetá	8.9%	7.2%	9.4%	72.7%	1.8%	2537
Cartagena	9.4%	7.8%	8.1%	72.2%	2.5%	8481
Cartago	8.0%	5.9%	6.7%	77.8%	1.6%	985
Casanare	9.4%	6.6%	8.0%	74.7%	1.4%	2442
Cauca	8.6%	9.0%	9.9%	69.5%	3.1%	10047
Cesar	9.6%	9.4%	10.2%	69.3%	1.5%	6848
Chocó	9.2%	11.0%	11.6%	65.5%	2.7%	3674
Chía	7.4%	3.6%	4.3%	84.4%	0.3%	1018
Ciénaga	8.7%	11.3%	11.1%	66.0%	2.9%	1122
Cundinamarca	7.2%	5.2%	7.0%	79.4%	1.1%	11983
Córdoba	9.8%	9.5%	10.8%	67.2%	2.6%	10669
Cúcuta	9.2%	5.4%	7.3%	77.2%	0.8%	5717
Dosquebradas	10.9%	7.0%	7.3%	73.6%	1.1%	1396
Duitama	4.8%	3.7%	4.5%	86.5%	0.4%	994
Envigado	5.7%	3.1%	4.4%	85.1%	1.7%	1149
Facatativá	6.9%	4.9%	6.2%	80.8%	1.2%	1016
Florencia	9.8%	7.7%	7.8%	73.0%	1.7%	1579
Floridablanca	5.7%	4.5%	4.3%	84.8%	0.7%	1817
Fusagasugá	6.3%	6.5%	7.0%	78.1%	2.1%	899
Girardot	11.2%	8.1%	9.7%	69.7%	1.3%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	9.1%	5.1%	6.3%	78.2%	1.4%	1086
Guainía	6.2%	13.9%	9.7%	67.5%	2.6%	453
Guaviare	11.7%	7.7%	9.1%	70.1%	1.4%	726
Huila	9.7%	7.4%	8.4%	73.3%	1.2%	6272
Ibagué	7.3%	5.7%	6.7%	79.3%	1.0%	4048
Ipiales	8.0%	5.6%	8.3%	76.9%	1.2%	1122
Itagüí	9.8%	5.2%	5.7%	78.3%	0.9%	1490
Jamundí	10.5%	9.0%	8.2%	70.0%	2.4%	870
La Guajira	8.8%	10.3%	11.2%	65.8%	3.9%	3523
Lorica	7.3%	8.0%	9.3%	73.9%	1.5%	1091
Magangué	9.8%	10.8%	11.4%	64.0%	3.9%	1324
Magdalena	9.5%	10.1%	11.2%	65.4%	3.8%	7423
Maicao	10.4%	10.4%	11.3%	65.4%	2.5%	1712
Malambo	7.6%	8.0%	8.5%	72.8%	3.1%	933
Manizales	9.1%	6.1%	7.3%	76.5%	1.0%	2198
Medellín	10.2%	5.9%	7.6%	74.4%	2.0%	15603
Meta	9.4%	6.9%	7.7%	74.3%	1.7%	4237
Montería	10.7%	7.7%	8.9%	71.0%	1.7%	4136
Mosquera	9.7%	5.6%	6.4%	76.8%	1.4%	997
Nariño	8.6%	8.1%	9.4%	71.1%	2.9%	6999
Neiva	9.7%	6.5%	7.1%	75.8%	0.9%	2702
Norte de Santander	8.3%	6.5%	8.3%	75.6%	1.3%	6361
Palmira	7.2%	5.4%	6.6%	79.7%	1.1%	2342
Pasto	8.8%	5.3%	7.0%	77.8%	1.1%	2847
Pereira	9.6%	6.0%	7.2%	75.8%	1.4%	3341
Piedecuesta	6.5%	5.2%	6.0%	80.8%	1.4%	1148
Pitalito	8.7%	7.8%	9.3%	73.4%	0.9%	1232
Popayán	8.1%	6.2%	5.6%	78.7%	1.4%	2287
Putumayo	10.4%	8.5%	9.7%	70.0%	1.5%	3100
Quibdó	9.3%	8.8%	12.7%	66.2%	3.0%	1106
Quindío	10.4%	7.9%	8.4%	71.7%	1.6%	1713
Riohacha	8.8%	9.5%	10.3%	68.7%	2.7%	2171
Rionegro	7.1%	4.9%	7.8%	78.8%	1.4%	833
Risaralda	9.7%	8.3%	9.6%	70.3%	2.2%	1923
Sabaneta	8.2%	2.4%	4.5%	83.8%	1.1%	376
Sahagún	8.7%	7.0%	9.1%	72.5%	2.6%	908
San Andrés	8.0%	6.6%	8.7%	75.7%	0.9%	423
Santa Marta	10.1%	7.3%	8.7%	71.5%	2.3%	4318
Santander	7.1%	6.4%	7.4%	78.3%	0.8%	6310

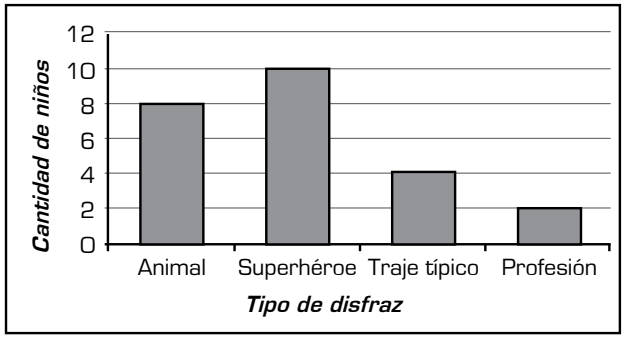
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.3%	8.4%	7.5%	73.1%	1.8%	2439
Soacha	8.4%	6.1%	7.3%	77.2%	1.0%	4203
Sogamoso	7.8%	4.1%	5.8%	81.8%	0.6%	1026
Soledad	9.4%	5.8%	6.3%	76.8%	1.8%	4027
Sucre	11.3%	10.9%	11.2%	64.1%	2.5%	6165
Tolima	9.6%	8.3%	8.9%	71.4%	1.8%	7271
Tuluá	9.0%	5.3%	7.4%	77.1%	1.2%	1652
Tumaco	10.7%	13.1%	12.3%	57.6%	6.3%	1940
Tunja	4.8%	5.1%	5.7%	83.6%	0.7%	1489
Turbo	12.9%	9.8%	10.4%	64.5%	2.4%	1827
Uribia	8.6%	16.5%	18.7%	48.4%	7.8%	1677
Valle del Cauca	9.1%	7.1%	8.1%	74.2%	1.5%	6692
Valledupar	9.1%	6.2%	8.2%	74.4%	2.1%	3944
Vichada	11.5%	11.1%	13.6%	60.3%	3.6%	803
Villavicencio	8.6%	5.0%	5.4%	79.6%	1.3%	4440
Yopal	9.4%	6.0%	7.4%	76.3%	0.9%	1576
Yumbo	10.9%	6.7%	7.8%	73.2%	1.3%	971
Zipaquirá	6.2%	4.5%	5.6%	82.8%	0.8%	994
Colombia	9.0%	7.2%	8.2%	73.8%	1.9%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 19.

Mónica organizó una fiesta de disfraces. En la gráfica se muestra el tipo de disfraz y la cantidad de niños que lo usaron.



Gráfica

¿Cuál fue el tipo de disfraz más usado por los niños?

A. Animal.
B. Superhéroe.
C. Traje típico.
D. Profesión.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	6.8%	67.6%	16.6%	5.9%	3.1%	747
Antioquia	5.8%	81.8%	6.3%	3.9%	2.2%	23293
Apartadó	5.6%	80.0%	7.2%	4.9%	2.2%	1416
Arauca	4.1%	85.5%	5.9%	3.3%	1.2%	2220
Armenia	3.0%	90.8%	3.4%	2.0%	0.8%	1807
Atlántico	7.4%	77.1%	6.9%	5.3%	3.3%	4408
Barrancabermeja	2.9%	90.1%	3.6%	2.2%	1.2%	1981
Barranquilla	3.8%	86.9%	4.9%	3.0%	1.3%	8932
Bello	2.8%	89.7%	3.6%	2.2%	1.7%	3125
Bogotá, D.C.	1.8%	92.8%	2.6%	1.7%	1.2%	49170
Bolívar	9.2%	68.4%	11.1%	7.9%	3.4%	8729
Boyacá	3.7%	87.8%	4.9%	2.9%	0.7%	6308
Bucaramanga	2.2%	93.1%	2.7%	1.2%	0.8%	3875
Buenaventura	5.7%	76.6%	8.8%	6.3%	2.5%	3798
Buga	2.4%	88.7%	4.7%	2.7%	1.5%	953
Caldas	4.3%	85.8%	5.2%	3.5%	1.2%	4142
Cali	2.6%	90.3%	3.9%	2.2%	1.1%	15522
Caquetá	7.6%	76.7%	9.3%	4.9%	1.6%	2537
Cartagena	5.2%	81.4%	6.3%	4.6%	2.5%	8481
Cartago	4.0%	88.1%	4.1%	2.7%	1.1%	985
Casanare	3.7%	87.1%	5.2%	3.2%	0.8%	2442
Cauca	7.6%	77.7%	7.3%	4.7%	2.7%	10047
Cesar	6.7%	79.8%	7.5%	4.8%	1.3%	6848
Chocó	10.0%	67.4%	11.9%	8.3%	2.4%	3674
Chía	1.2%	95.0%	1.6%	1.9%	0.4%	1018
Ciénaga	10.2%	72.1%	9.0%	6.2%	2.5%	1122
Cundinamarca	2.8%	90.7%	3.2%	2.3%	1.0%	11983
Córdoba	8.2%	74.0%	8.7%	6.5%	2.6%	10669
Cúcuta	2.7%	91.4%	3.3%	1.9%	0.7%	5717
Dosquebradas	2.9%	90.2%	3.8%	2.4%	0.8%	1396
Duitama	0.9%	96.9%	1.2%	0.8%	0.2%	994
Envigado	1.5%	94.5%	1.3%	1.3%	1.4%	1149
Facatativá	1.9%	92.8%	3.3%	1.2%	0.8%	1016
Florencia	4.1%	85.0%	6.0%	3.3%	1.6%	1579
Floridablanca	1.2%	95.3%	1.8%	1.0%	0.7%	1817
Fusagasugá	1.8%	91.2%	2.7%	2.3%	2.0%	899
Girardot	3.4%	86.2%	5.1%	4.4%	1.0%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	2.7%	90.5%	3.3%	2.5%	1.0%	1086
Guainía	9.7%	72.0%	8.4%	6.4%	3.5%	453
Guaviare	6.9%	76.7%	9.1%	5.8%	1.5%	726
Huila	4.7%	84.5%	6.4%	3.3%	1.1%	6272
Ibagué	2.5%	91.9%	3.2%	1.5%	0.9%	4048
Ipiales	3.0%	92.5%	2.5%	1.6%	0.4%	1122
Itagüí	1.2%	93.4%	2.7%	1.5%	1.2%	1490
Jamundí	4.6%	85.2%	5.4%	3.2%	1.6%	870
La Guajira	8.1%	74.1%	8.4%	6.4%	3.0%	3523
Lorica	6.8%	82.7%	5.4%	3.5%	1.6%	1091
Magangué	9.4%	67.3%	12.2%	7.4%	3.7%	1324
Magdalena	9.0%	71.0%	10.1%	6.5%	3.4%	7423
Maicao	7.5%	75.1%	8.5%	6.5%	2.3%	1712
Malambo	5.4%	76.5%	6.8%	8.1%	3.2%	933
Manizales	2.8%	92.1%	2.3%	2.0%	0.7%	2198
Medellín	2.9%	88.5%	4.1%	2.7%	1.8%	15603
Meta	4.2%	84.2%	7.3%	2.9%	1.4%	4237
Montería	6.0%	80.6%	6.8%	4.9%	1.6%	4136
Mosquera	2.1%	92.6%	3.0%	1.4%	0.9%	997
Nariño	5.2%	81.2%	6.5%	4.6%	2.6%	6999
Neiva	2.5%	91.1%	3.5%	2.3%	0.6%	2702
Norte de Santander	3.8%	87.5%	4.5%	3.0%	1.1%	6361
Palmira	2.0%	93.0%	2.9%	1.4%	0.8%	2342
Pasto	2.0%	92.3%	2.5%	2.0%	1.2%	2847
Pereira	3.4%	88.9%	4.1%	2.4%	1.2%	3341
Piedecuesta	2.2%	93.0%	2.7%	1.0%	1.0%	1148
Pitalito	4.5%	86.4%	5.5%	3.1%	0.5%	1232
Popayán	2.1%	91.5%	3.6%	2.1%	0.8%	2287
Putumayo	5.4%	80.3%	8.6%	4.7%	1.1%	3100
Quibdó	5.5%	76.7%	7.8%	7.2%	2.8%	1106
Quindío	4.0%	86.5%	5.4%	2.9%	1.2%	1713
Riohacha	6.1%	77.9%	7.5%	6.0%	2.6%	2171
Rionegro	2.9%	92.6%	1.4%	2.4%	0.7%	833
Risaralda	5.4%	83.8%	5.0%	3.8%	2.1%	1923
Sabaneta	1.6%	93.9%	1.9%	1.1%	1.6%	376
Sahagún	7.0%	80.8%	5.7%	3.9%	2.5%	908
San Andrés	6.1%	82.7%	6.9%	3.1%	1.2%	423
Santa Marta	4.9%	82.2%	6.1%	4.4%	2.5%	4318
Santander	3.5%	88.7%	4.1%	2.9%	0.7%	6310

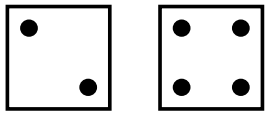
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	4.7%	84.0%	5.5%	4.3%	1.5%	2439
Soacha	2.9%	90.5%	3.0%	2.8%	0.8%	4203
Sogamoso	1.6%	95.5%	1.4%	1.4%	0.2%	1026
Soledad	3.9%	86.9%	5.1%	2.4%	1.6%	4027
Sucre	9.0%	70.9%	10.5%	7.4%	2.3%	6165
Tolima	5.4%	82.5%	6.8%	3.7%	1.7%	7271
Tuluá	2.7%	89.8%	4.0%	2.4%	1.1%	1652
Tumaco	9.3%	63.4%	13.2%	8.4%	5.7%	1940
Tunja	1.3%	95.0%	2.0%	1.1%	0.6%	1489
Turbo	9.5%	71.9%	8.7%	7.0%	3.0%	1827
Uribia	12.3%	56.2%	14.2%	10.8%	6.6%	1677
Valle del Cauca	4.6%	85.7%	4.9%	3.4%	1.4%	6692
Valledupar	4.4%	84.2%	5.4%	3.9%	2.2%	3944
Vichada	8.5%	66.9%	12.8%	8.5%	3.4%	803
Villavicencio	2.1%	92.7%	2.4%	1.7%	1.1%	4440
Yopal	2.9%	91.1%	3.0%	2.2%	1.0%	1576
Yumbo	2.7%	89.6%	4.5%	2.1%	1.1%	971
Zipaquirá	1.4%	93.8%	2.8%	1.2%	0.8%	994
Colombia	4.5%	84.9%	5.4%	3.6%	1.7%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 20.**

Germán lanza dos dados y obtiene los siguientes puntos en cada uno.



¿Cuál fue el total de puntos obtenidos?

A. 2
B. 4
C. 6
D. 24

- **Estructura**

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	5.8%	15.0%	71.8%	3.2%	4.3%	747
Antioquia	2.9%	8.9%	83.4%	2.6%	2.3%	23293
Apartadó	3.5%	9.8%	81.5%	2.8%	2.5%	1416
Arauca	2.0%	6.4%	88.4%	2.3%	0.8%	2220
Armenia	1.7%	5.5%	90.8%	0.9%	1.1%	1807
Atlántico	3.9%	10.5%	77.7%	4.0%	3.8%	4408
Barrancabermeja	1.1%	4.9%	91.5%	1.2%	1.3%	1981
Barranquilla	2.4%	6.2%	87.5%	2.1%	1.8%	8932
Bello	1.3%	5.1%	90.2%	1.4%	2.0%	3125
Bogotá, D.C.	1.0%	3.3%	93.1%	1.3%	1.3%	49170
Bolívar	6.0%	12.7%	72.5%	4.8%	4.0%	8729
Boyacá	1.9%	6.9%	88.6%	1.9%	0.7%	6308
Bucaramanga	0.9%	3.1%	93.9%	1.1%	1.0%	3875
Buenaventura	3.6%	8.9%	81.1%	3.5%	2.9%	3798
Buga	1.5%	5.5%	90.7%	1.0%	1.4%	953
Caldas	1.8%	6.8%	88.4%	1.9%	1.1%	4142
Cali	1.7%	4.8%	90.8%	1.4%	1.3%	15522
Caquetá	2.9%	11.1%	82.1%	2.5%	1.4%	2537
Cartagena	3.1%	6.3%	85.6%	2.6%	2.4%	8481
Cartago	1.9%	5.5%	89.0%	2.1%	1.4%	985
Casanare	2.4%	8.0%	87.0%	1.4%	1.1%	2442
Cauca	3.8%	11.5%	78.4%	3.2%	3.0%	10047
Cesar	4.5%	10.5%	79.7%	3.8%	1.5%	6848
Chocó	6.4%	15.9%	69.1%	5.7%	2.9%	3674
Chía	0.6%	3.4%	94.4%	1.2%	0.4%	1018
Ciénaga	5.3%	13.6%	75.1%	3.9%	2.0%	1122
Cundinamarca	1.2%	4.7%	91.8%	1.3%	1.0%	11983
Córdoba	4.5%	11.7%	77.1%	4.0%	2.7%	10669
Cúcuta	1.5%	5.2%	91.3%	1.3%	0.7%	5717
Dosquebradas	1.4%	5.2%	90.6%	1.7%	1.1%	1396
Duitama	1.0%	2.9%	95.0%	0.9%	0.2%	994
Envigado	0.7%	3.0%	93.9%	0.5%	1.8%	1149
Facatativá	0.8%	3.7%	93.1%	1.2%	1.2%	1016
Florencia	2.2%	6.8%	87.7%	1.5%	1.9%	1579
Floridablanca	1.1%	2.5%	94.7%	1.0%	0.7%	1817
Fusagasugá	1.2%	3.9%	92.2%	1.0%	1.7%	899
Girardot	2.9%	6.0%	88.5%	2.1%	0.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	1.7%	4.4%	91.9%	0.8%	1.2%	1086
Guainía	3.8%	13.9%	75.9%	2.6%	3.8%	453
Guaviare	3.6%	10.2%	81.5%	3.4%	1.2%	726
Huila	2.4%	9.8%	84.8%	1.9%	1.1%	6272
Ibagué	1.2%	3.5%	93.2%	1.1%	1.0%	4048
Ipiales	1.8%	4.8%	90.2%	2.3%	0.9%	1122
Itagüí	1.0%	5.0%	92.0%	1.2%	0.8%	1490
Jamundí	2.0%	7.6%	86.8%	1.3%	2.4%	870
La Guajira	5.9%	12.4%	73.8%	4.4%	3.5%	3523
Lorica	4.5%	8.6%	82.7%	3.0%	1.2%	1091
Magangué	4.7%	13.4%	73.3%	5.4%	3.2%	1324
Magdalena	5.0%	12.3%	73.6%	4.8%	4.2%	7423
Maicao	5.4%	11.8%	76.4%	4.2%	2.2%	1712
Malambo	3.8%	8.7%	81.2%	3.9%	2.5%	933
Manizales	1.3%	5.0%	90.9%	1.7%	1.1%	2198
Medellín	1.6%	5.0%	90.0%	1.5%	1.9%	15603
Meta	2.4%	7.0%	86.9%	1.8%	1.9%	4237
Montería	3.6%	8.6%	82.8%	3.2%	1.8%	4136
Mosquera	0.6%	2.1%	95.3%	1.1%	0.9%	997
Nariño	3.4%	9.1%	82.1%	2.5%	2.9%	6999
Neiva	1.7%	5.6%	90.5%	1.7%	0.5%	2702
Norte de Santander	2.2%	6.8%	88.5%	1.4%	1.1%	6361
Palmira	1.2%	4.1%	92.3%	1.5%	0.8%	2342
Pasto	1.3%	4.2%	92.1%	1.5%	0.8%	2847
Pereira	1.4%	5.4%	89.7%	2.1%	1.5%	3341
Piedecuesta	1.0%	3.0%	93.4%	1.5%	1.1%	1148
Pitalito	1.5%	7.7%	88.1%	1.7%	1.1%	1232
Popayán	1.6%	4.2%	91.6%	1.6%	1.1%	2287
Putumayo	2.9%	9.2%	84.3%	1.9%	1.7%	3100
Quibdó	4.3%	10.5%	79.2%	2.8%	3.2%	1106
Quindío	2.2%	6.7%	88.1%	1.6%	1.4%	1713
Riohacha	5.1%	12.1%	77.3%	3.1%	2.3%	2171
Rionegro	1.1%	5.3%	91.5%	1.4%	0.7%	833
Risaralda	1.8%	8.9%	84.8%	2.1%	2.4%	1923
Sabaneta	1.3%	4.3%	92.3%	1.1%	1.1%	376
Sahagún	2.9%	7.0%	85.0%	2.5%	2.5%	908
San Andrés	3.1%	9.9%	82.3%	4.3%	0.5%	423
Santa Marta	3.5%	9.1%	82.6%	2.4%	2.5%	4318
Santander	1.7%	6.1%	89.5%	1.9%	0.8%	6310

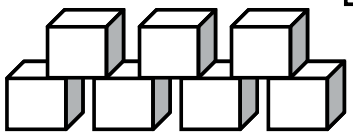
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	2.7%	7.9%	84.9%	3.1%	1.4%	2439
Soacha	1.3%	4.0%	92.7%	1.2%	0.8%	4203
Sogamoso	0.8%	3.2%	93.9%	1.6%	0.6%	1026
Soledad	2.1%	5.8%	88.6%	1.9%	1.6%	4027
Sucre	5.5%	13.7%	72.8%	5.3%	2.7%	6165
Tolima	2.8%	8.7%	84.5%	2.4%	1.7%	7271
Tuluá	2.1%	5.8%	89.3%	1.8%	1.1%	1652
Tumaco	6.8%	13.1%	66.6%	6.9%	6.5%	1940
Tunja	0.8%	2.8%	94.7%	1.3%	0.4%	1489
Turbo	5.6%	13.2%	74.3%	3.7%	3.3%	1827
Uribia	9.9%	17.9%	54.4%	9.8%	7.9%	1677
Valle del Cauca	2.1%	6.2%	88.5%	1.7%	1.4%	6692
Valledupar	3.6%	7.6%	84.1%	2.3%	2.5%	3944
Vichada	6.0%	13.4%	72.5%	5.0%	3.1%	803
Villavicencio	1.2%	3.6%	92.7%	1.3%	1.2%	4440
Yopal	0.8%	5.5%	91.6%	1.3%	0.8%	1576
Yumbo	1.9%	6.1%	89.4%	1.5%	1.1%	971
Zipaquirá	1.1%	3.6%	92.6%	1.8%	0.9%	994
Colombia	2.6%	7.2%	86.1%	2.3%	1.8%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 21.**

Diana armó la figura utilizando cubos iguales como este



Figura

¿Cuántos cubos utilizó en total?

A. 7
B. 12
C. 14
D. 23

- **Estructura**

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Estimar medidas de patrones arbitrarios.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	81.9%	4.1%	4.4%	5.9%	3.6%	747
Antioquia	91.0%	2.3%	2.2%	2.2%	2.3%	23293
Apartadó	89.9%	2.4%	2.4%	2.6%	2.7%	1416
Arauca	94.7%	1.3%	1.1%	1.5%	1.4%	2220
Armenia	95.2%	1.2%	1.2%	1.1%	1.3%	1807
Atlántico	87.1%	2.7%	3.2%	3.5%	3.5%	4408
Barrancabermeja	95.4%	1.1%	1.1%	1.1%	1.3%	1981
Barranquilla	93.4%	1.7%	1.9%	1.4%	1.6%	8932
Bello	94.0%	1.0%	2.0%	1.2%	1.8%	3125
Bogotá, D.C.	95.7%	1.0%	1.1%	0.9%	1.3%	49170
Bolívar	81.2%	4.7%	4.5%	5.1%	4.4%	8729
Boyacá	94.7%	1.7%	1.4%	1.3%	0.9%	6308
Bucaramanga	96.6%	0.9%	0.9%	0.6%	0.9%	3875
Buenaventura	88.1%	2.9%	2.9%	3.2%	2.9%	3798
Buga	94.6%	2.2%	1.0%	1.0%	1.0%	953
Caldas	93.7%	1.5%	2.1%	1.6%	1.1%	4142
Cali	94.5%	1.4%	1.5%	1.2%	1.4%	15522
Caquetá	91.8%	2.0%	1.9%	2.3%	2.0%	2537
Cartagena	89.9%	2.4%	2.4%	2.6%	2.7%	8481
Cartago	93.4%	1.4%	2.0%	1.9%	1.2%	985
Casanare	93.7%	1.9%	1.7%	1.4%	1.3%	2442
Cauca	87.6%	2.9%	3.3%	3.0%	3.2%	10047
Cesar	89.9%	3.2%	2.8%	2.5%	1.5%	6848
Chocó	83.3%	3.9%	4.8%	5.1%	2.9%	3674
Chía	96.8%	0.9%	0.9%	0.8%	0.7%	1018
Ciénaga	86.4%	3.8%	4.4%	2.7%	2.8%	1122
Cundinamarca	95.7%	1.2%	1.2%	0.9%	1.0%	11983
Córdoba	86.5%	3.3%	3.4%	3.9%	2.9%	10669
Cúcuta	96.2%	1.1%	1.0%	0.9%	0.7%	5717
Dosquebradas	95.4%	1.0%	1.2%	1.0%	1.4%	1396
Duitama	97.4%	0.7%	0.8%	0.9%	0.2%	994
Envigado	96.7%	0.4%	1.0%	0.4%	1.4%	1149
Facatativá	96.1%	0.9%	1.0%	0.5%	1.6%	1016
Florencia	93.5%	2.0%	1.1%	1.5%	1.9%	1579
Floridablanca	96.0%	0.9%	0.8%	1.0%	1.2%	1817
Fusagasugá	96.0%	0.8%	1.1%	0.8%	1.3%	899
Girardot	93.7%	2.5%	1.3%	2.1%	0.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	96.2%	0.6%	1.5%	1.0%	0.7%	1086
Guainía	84.1%	4.4%	3.3%	5.1%	3.1%	453
Guaviare	91.0%	2.6%	2.8%	2.3%	1.2%	726
Huila	93.2%	2.0%	1.8%	1.6%	1.4%	6272
Ibagué	96.2%	1.0%	0.9%	1.0%	1.0%	4048
Ipiales	96.1%	1.1%	1.0%	1.0%	0.9%	1122
Itagüí	96.4%	0.6%	1.3%	0.7%	0.9%	1490
Jamundí	93.2%	1.0%	2.2%	1.5%	2.1%	870
La Guajira	83.8%	4.3%	4.1%	4.1%	3.8%	3523
Lorica	89.6%	2.9%	3.4%	2.9%	1.2%	1091
Magangué	85.1%	3.7%	3.9%	3.5%	3.8%	1324
Magdalena	83.1%	4.1%	3.5%	4.8%	4.5%	7423
Maicao	86.3%	3.6%	3.4%	4.3%	2.5%	1712
Malambo	89.1%	3.4%	2.6%	2.1%	2.8%	933
Manizales	96.1%	0.9%	1.2%	0.8%	1.0%	2198
Medellín	94.0%	1.4%	1.4%	1.3%	1.9%	15603
Meta	92.9%	1.7%	1.9%	1.7%	1.7%	4237
Montería	90.1%	2.4%	2.8%	2.5%	2.3%	4136
Mosquera	96.8%	1.1%	0.8%	0.7%	0.6%	997
Nariño	89.9%	2.5%	2.5%	2.2%	2.9%	6999
Neiva	95.9%	1.3%	1.4%	0.7%	0.6%	2702
Norte de Santander	94.8%	1.4%	1.4%	1.2%	1.2%	6361
Palmira	95.8%	0.9%	1.1%	1.0%	1.2%	2342
Pasto	96.0%	0.8%	1.2%	1.1%	0.9%	2847
Pereira	95.2%	1.2%	1.3%	1.0%	1.2%	3341
Piedecuesta	95.7%	0.7%	1.4%	0.7%	1.5%	1148
Pitalito	94.5%	1.0%	2.2%	1.3%	1.1%	1232
Popayán	95.1%	1.5%	1.3%	0.9%	1.2%	2287
Putumayo	91.6%	2.5%	2.4%	1.9%	1.6%	3100
Quibdó	86.7%	4.2%	3.3%	2.9%	3.0%	1106
Quindío	94.1%	1.6%	1.6%	1.3%	1.5%	1713
Riohacha	87.0%	3.8%	3.4%	3.3%	2.5%	2171
Rionegro	95.7%	2.0%	1.2%	0.4%	0.7%	833
Risaralda	91.5%	1.8%	2.4%	1.7%	2.6%	1923
Sabaneta	95.2%	0.8%	1.9%	0.3%	1.9%	376
Sahagún	90.3%	2.6%	2.3%	2.2%	2.5%	908
San Andrés	92.7%	2.4%	1.9%	1.9%	1.2%	423
Santa Marta	90.7%	2.5%	2.2%	1.8%	2.8%	4318
Santander	95.3%	1.2%	1.5%	1.0%	0.9%	6310

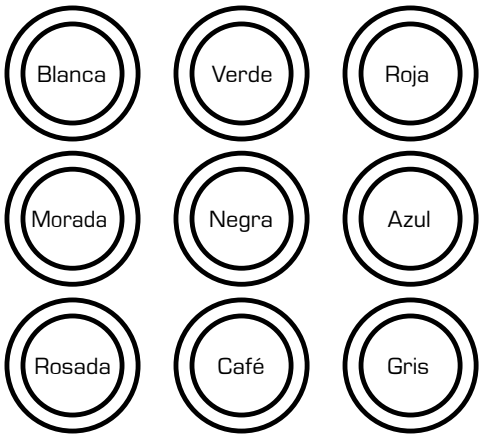
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	92.7%	1.8%	1.8%	2.0%	1.7%	2439
Soacha	96.6%	0.8%	0.9%	0.7%	1.0%	4203
Sogamoso	97.7%	0.4%	0.9%	0.6%	0.5%	1026
Soledad	94.2%	1.2%	1.6%	1.1%	1.9%	4027
Sucre	83.9%	4.0%	4.4%	4.8%	2.8%	6165
Tolima	91.4%	2.3%	2.2%	2.0%	2.0%	7271
Tuluá	95.3%	1.2%	1.3%	1.2%	1.1%	1652
Tumaco	75.1%	5.5%	5.8%	6.4%	7.2%	1940
Tunja	97.2%	0.7%	0.7%	1.0%	0.5%	1489
Turbo	84.5%	3.9%	3.6%	4.4%	3.6%	1827
Uribia	66.1%	8.0%	7.8%	10.4%	7.7%	1677
Valle del Cauca	93.3%	1.8%	2.1%	1.3%	1.5%	6692
Valledupar	91.0%	2.5%	2.3%	1.8%	2.4%	3944
Vichada	81.2%	3.6%	5.1%	5.4%	4.7%	803
Villavicencio	95.7%	1.1%	0.8%	1.0%	1.4%	4440
Yopal	95.8%	1.3%	1.3%	0.8%	0.9%	1576
Yumbo	94.4%	1.3%	1.8%	0.7%	1.8%	971
Zipaquirá	97.1%	0.8%	0.6%	1.0%	0.5%	994
Colombia	92.1%	2.0%	2.0%	1.9%	1.9%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 22.**

Observa dónde está ubicada la ficha azul.



La ficha azul está

A. arriba de la gris y al lado de la roja.
B. arriba de la blanca y al lado de la negra.
C. abajo de la roja y al lado de la negra.
D. abajo de la café y arriba de la gris.

- **Estructura**

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	32.5%	13.5%	44.4%	7.1%	2.4%	747
Antioquia	29.1%	7.5%	57.5%	3.9%	2.0%	23293
Apartadó	25.8%	7.5%	60.1%	4.2%	2.5%	1416
Arauca	29.3%	7.9%	58.4%	3.6%	0.8%	2220
Armenia	25.6%	6.0%	63.9%	3.6%	0.9%	1807
Atlántico	22.6%	8.9%	60.0%	5.6%	2.9%	4408
Barrancabermeja	23.0%	6.6%	66.7%	2.9%	0.8%	1981
Barranquilla	19.6%	7.1%	68.1%	3.8%	1.3%	8932
Bello	24.9%	5.5%	65.0%	2.9%	1.7%	3125
Bogotá, D.C.	20.0%	5.4%	70.8%	2.7%	1.1%	49170
Bolívar	27.7%	11.2%	50.3%	7.8%	3.0%	8729
Boyacá	27.7%	7.2%	60.6%	3.7%	0.8%	6308
Bucaramanga	21.4%	5.2%	69.9%	2.6%	0.9%	3875
Buenaventura	26.6%	9.0%	58.1%	4.6%	1.8%	3798
Buga	24.9%	5.5%	65.0%	3.5%	1.3%	953
Caldas	29.0%	8.2%	59.3%	2.8%	0.7%	4142
Cali	23.0%	6.0%	66.3%	3.5%	1.1%	15522
Caquetá	31.5%	10.1%	52.3%	4.6%	1.5%	2537
Cartagena	20.2%	7.9%	65.5%	4.6%	1.9%	8481
Cartago	25.9%	7.7%	63.4%	2.4%	0.6%	985
Casanare	32.3%	7.0%	56.8%	2.7%	1.1%	2442
Cauca	29.9%	9.1%	53.4%	5.2%	2.4%	10047
Cesar	28.8%	8.7%	55.4%	5.8%	1.3%	6848
Chocó	27.9%	10.9%	51.1%	7.7%	2.3%	3674
Chía	18.1%	3.9%	75.0%	2.5%	0.5%	1018
Ciénaga	23.7%	9.9%	57.2%	6.5%	2.7%	1122
Cundinamarca	22.8%	6.1%	67.0%	3.1%	0.9%	11983
Córdoba	27.8%	9.3%	54.9%	5.8%	2.2%	10669
Cúcuta	25.1%	6.6%	64.8%	2.9%	0.6%	5717
Dosquebradas	26.4%	7.6%	62.0%	3.3%	0.7%	1396
Duitama	18.7%	3.7%	74.5%	2.6%	0.4%	994
Envigado	17.1%	3.0%	76.0%	2.2%	1.7%	1149
Facatativá	21.8%	5.9%	69.4%	2.2%	0.8%	1016
Florencia	31.8%	8.8%	53.0%	4.8%	1.6%	1579
Floridablanca	17.2%	4.9%	74.9%	2.1%	0.9%	1817
Fusagasugá	25.9%	4.2%	65.3%	3.0%	1.6%	899
Girardot	27.9%	10.4%	57.0%	3.4%	1.3%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	25.0%	7.6%	63.3%	3.3%	0.7%	1086
Guainía	35.8%	9.9%	43.0%	8.4%	2.9%	453
Guaviare	31.1%	8.4%	54.1%	4.8%	1.5%	726
Huila	29.1%	10.2%	55.8%	4.0%	0.8%	6272
Ibagué	23.4%	6.0%	66.4%	3.3%	0.9%	4048
Ipiales	22.3%	6.2%	67.7%	3.2%	0.5%	1122
Itagüí	21.6%	5.4%	68.9%	3.2%	0.9%	1490
Jamundí	25.9%	9.8%	58.9%	4.1%	1.4%	870
La Guajira	25.7%	9.1%	55.4%	7.4%	2.5%	3523
Lorica	22.8%	8.2%	62.4%	5.6%	0.9%	1091
Magangué	27.0%	12.8%	49.7%	7.0%	3.5%	1324
Magdalena	28.7%	9.7%	51.1%	7.1%	3.4%	7423
Maicao	30.0%	9.1%	53.0%	6.0%	1.9%	1712
Malambo	21.3%	8.7%	64.6%	3.8%	1.6%	933
Manizales	21.7%	6.1%	68.6%	2.8%	0.8%	2198
Medellín	25.3%	5.6%	64.4%	3.1%	1.7%	15603
Meta	32.1%	7.5%	55.1%	3.7%	1.7%	4237
Montería	26.0%	8.7%	59.7%	4.3%	1.2%	4136
Mosquera	19.7%	7.2%	71.0%	1.5%	0.6%	997
Nariño	31.2%	8.5%	54.0%	3.8%	2.6%	6999
Neiva	27.8%	7.7%	60.6%	3.7%	0.2%	2702
Norte de Santander	30.2%	7.7%	57.5%	3.6%	1.0%	6361
Palmira	21.9%	6.2%	68.2%	2.8%	0.9%	2342
Pasto	26.1%	6.1%	64.1%	2.9%	0.8%	2847
Pereira	26.4%	6.6%	62.4%	3.3%	1.2%	3341
Piedecuesta	19.0%	5.8%	70.6%	3.5%	1.0%	1148
Pitalito	25.8%	9.7%	58.8%	4.7%	0.9%	1232
Popayán	23.7%	6.5%	65.6%	3.0%	1.2%	2287
Putumayo	32.0%	10.5%	52.2%	3.9%	1.4%	3100
Quibdó	23.6%	9.4%	56.9%	7.5%	2.6%	1106
Quindío	30.0%	8.2%	57.2%	3.5%	1.1%	1713
Riohacha	27.1%	9.0%	56.2%	5.4%	2.3%	2171
Rionegro	20.3%	4.3%	71.1%	3.4%	1.0%	833
Risaralda	30.0%	8.8%	56.4%	3.1%	1.7%	1923
Sabaneta	15.2%	2.7%	78.5%	2.7%	1.1%	376
Sahagún	23.2%	10.1%	59.4%	5.2%	2.1%	908
San Andrés	20.6%	9.7%	65.2%	4.0%	0.5%	423
Santa Marta	23.5%	9.1%	61.5%	4.3%	1.6%	4318
Santander	27.3%	7.3%	61.6%	3.2%	0.6%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	24.4%	8.2%	62.1%	3.8%	1.6%	2439
Soacha	22.8%	5.8%	67.3%	3.3%	0.7%	4203
Sogamoso	20.0%	6.7%	70.6%	2.3%	0.4%	1026
Soledad	17.2%	6.8%	70.8%	3.7%	1.4%	4027
Sucre	27.3%	11.0%	52.8%	6.9%	2.1%	6165
Tolima	29.0%	9.6%	55.3%	4.6%	1.5%	7271
Tuluá	23.7%	6.7%	65.1%	3.2%	1.3%	1652
Tumaco	28.5%	12.1%	46.5%	7.2%	5.8%	1940
Tunja	17.8%	4.6%	74.7%	2.4%	0.4%	1489
Turbo	30.0%	10.3%	51.1%	5.8%	2.8%	1827
Uribia	31.2%	10.3%	41.2%	10.8%	6.4%	1677
Valle del Cauca	27.2%	7.5%	60.3%	3.9%	1.1%	6692
Valledupar	23.0%	8.0%	62.8%	4.4%	1.8%	3944
Vichada	30.4%	11.2%	47.8%	7.0%	3.6%	803
Villavicencio	23.6%	6.8%	65.3%	3.2%	1.0%	4440
Yopal	26.6%	6.4%	62.4%	3.5%	1.0%	1576
Yumbo	27.9%	6.0%	61.5%	3.5%	1.1%	971
Zipaquirá	19.4%	6.8%	71.0%	1.9%	0.8%	994
Colombia	25.2%	7.5%	61.7%	4.1%	1.5%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 23.

Iván tiene esta colección de monedas.

Le regalaron 11 monedas más. ¿Cuántas monedas, en total, tiene ahora Iván?

A. 11
B. 12
C. 22
D. 23

• Estructura

Competencia	Resolución
Componente	Numérico - variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	7.8%	40.4%	8.4%	39.4%	4.0%	747
Antioquia	5.0%	28.6%	6.7%	57.7%	2.0%	23293
Apartadó	5.4%	28.8%	7.3%	56.1%	2.3%	1416
Arauca	5.0%	31.7%	5.3%	57.3%	0.7%	2220
Armenia	5.0%	25.1%	6.2%	62.7%	1.0%	1807
Atlántico	6.9%	32.0%	7.0%	50.9%	3.2%	4408
Barrancabermeja	3.9%	23.6%	5.7%	65.9%	1.0%	1981
Barranquilla	4.1%	26.7%	6.8%	60.9%	1.4%	8932
Bello	4.1%	20.0%	6.9%	67.5%	1.5%	3125
Bogotá, D.C.	3.2%	18.8%	6.5%	70.3%	1.2%	49170
Bolívar	7.4%	36.6%	8.5%	44.0%	3.5%	8729
Boyacá	4.2%	26.4%	6.1%	62.5%	0.8%	6308
Bucaramanga	3.1%	19.5%	5.3%	71.1%	1.0%	3875
Buenaventura	6.5%	29.7%	6.3%	55.2%	2.2%	3798
Buga	4.3%	26.8%	6.7%	61.6%	0.6%	953
Caldas	4.2%	30.1%	5.9%	58.8%	1.0%	4142
Cali	3.8%	24.5%	6.4%	64.1%	1.1%	15522
Caquetá	5.9%	37.3%	5.9%	49.2%	1.7%	2537
Cartagena	5.7%	26.7%	7.6%	58.1%	1.9%	8481
Cartago	4.0%	26.8%	6.0%	62.6%	0.6%	985
Casanare	5.2%	32.5%	6.3%	54.9%	1.2%	2442
Cauca	5.9%	31.7%	6.4%	53.2%	2.8%	10047
Cesar	6.1%	34.5%	5.7%	52.3%	1.4%	6848
Chocó	7.2%	35.4%	8.0%	46.9%	2.6%	3674
Chía	2.0%	17.3%	6.5%	74.0%	0.3%	1018
Ciénaga	7.2%	36.5%	8.4%	45.6%	2.2%	1122
Cundinamarca	3.3%	25.2%	5.9%	64.6%	1.0%	11983
Córdoba	6.6%	35.8%	7.9%	47.3%	2.4%	10669
Cúcuta	3.3%	24.6%	5.4%	65.9%	0.8%	5717
Dosquebradas	3.5%	28.9%	5.8%	61.0%	0.9%	1396
Duitama	2.4%	13.0%	5.0%	79.4%	0.2%	994
Envigado	2.3%	12.7%	5.6%	77.8%	1.7%	1149
Facatativá	3.2%	23.2%	6.1%	66.1%	1.3%	1016
Florencia	5.3%	37.1%	5.5%	50.3%	1.8%	1579
Floridablanca	2.8%	15.1%	6.4%	74.7%	1.0%	1817
Fusagasugá	3.3%	21.0%	6.6%	67.3%	1.8%	899
Girardot	5.3%	34.1%	6.6%	52.5%	1.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	4.1%	25.3%	5.4%	64.4%	0.7%	1086
Guainía	7.5%	38.9%	7.1%	44.8%	1.8%	453
Guaviare	4.1%	31.1%	6.9%	55.6%	2.2%	726
Huila	5.4%	33.8%	5.9%	53.6%	1.3%	6272
Ibagué	3.3%	24.5%	6.0%	65.3%	0.9%	4048
Ipiales	3.0%	22.3%	5.4%	68.5%	0.7%	1122
Itagüí	4.0%	21.7%	6.9%	66.6%	0.8%	1490
Jamundí	4.9%	29.5%	7.4%	56.8%	1.4%	870
La Guajira	7.0%	34.0%	7.2%	48.9%	2.9%	3523
Lorica	6.3%	30.3%	6.7%	55.6%	1.0%	1091
Magangué	6.4%	41.0%	8.2%	41.2%	3.2%	1324
Magdalena	7.3%	36.0%	7.7%	45.6%	3.4%	7423
Maicao	7.0%	34.5%	8.3%	48.1%	2.2%	1712
Malambo	6.8%	28.0%	6.1%	57.4%	1.7%	933
Manizales	3.2%	21.4%	6.6%	67.9%	0.9%	2198
Medellín	4.3%	22.9%	6.7%	64.4%	1.7%	15603
Meta	4.6%	31.2%	6.1%	56.4%	1.7%	4237
Montería	6.0%	34.0%	7.1%	51.5%	1.3%	4136
Mosquera	3.5%	22.0%	6.3%	67.3%	0.9%	997
Nariño	5.0%	28.5%	6.0%	57.8%	2.8%	6999
Neiva	4.4%	28.6%	4.9%	61.5%	0.6%	2702
Norte de Santander	4.4%	28.8%	5.6%	60.1%	1.1%	6361
Palmira	3.2%	23.1%	6.1%	66.7%	0.9%	2342
Pasto	3.5%	22.1%	6.1%	67.3%	1.1%	2847
Pereira	4.0%	25.2%	6.7%	62.7%	1.3%	3341
Piedecuesta	2.9%	18.3%	5.7%	72.0%	1.0%	1148
Pitalito	4.1%	31.9%	5.5%	57.8%	0.6%	1232
Popayán	2.9%	23.3%	5.7%	66.8%	1.4%	2287
Putumayo	5.8%	35.0%	6.3%	51.3%	1.6%	3100
Quibdó	6.8%	31.7%	7.6%	51.0%	2.9%	1106
Quindío	3.7%	32.9%	6.2%	55.5%	1.6%	1713
Riohacha	7.0%	33.0%	6.8%	50.3%	2.9%	2171
Rionegro	3.0%	19.2%	5.0%	72.0%	0.7%	833
Risaralda	4.8%	30.1%	6.0%	57.1%	2.0%	1923
Sabaneta	2.7%	12.8%	7.4%	75.5%	1.6%	376
Sahagún	4.1%	36.3%	5.0%	52.6%	2.0%	908
San Andrés	7.8%	35.5%	6.1%	49.9%	0.7%	423
Santa Marta	5.7%	31.4%	5.7%	55.4%	1.8%	4318
Santander	4.1%	27.7%	4.9%	62.6%	0.7%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	4.6%	28.5%	6.0%	59.4%	1.5%	2439
Soacha	3.7%	23.0%	7.1%	65.3%	0.9%	4203
Sogamoso	3.9%	19.7%	5.8%	70.3%	0.4%	1026
Soledad	4.2%	26.7%	7.0%	60.5%	1.6%	4027
Sucre	7.5%	37.0%	7.4%	45.7%	2.2%	6165
Tolima	5.2%	33.1%	5.6%	54.3%	1.7%	7271
Tuluá	4.2%	25.5%	6.2%	62.5%	1.5%	1652
Tumaco	8.9%	38.2%	9.3%	37.7%	5.9%	1940
Tunja	2.8%	17.8%	5.9%	72.9%	0.6%	1489
Turbo	8.9%	35.7%	6.5%	46.3%	2.6%	1827
Uribia	11.0%	36.8%	11.6%	34.1%	6.6%	1677
Valle del Cauca	4.0%	30.8%	6.1%	57.9%	1.3%	6692
Valledupar	4.8%	31.2%	6.4%	55.5%	2.1%	3944
Vichada	8.1%	40.1%	9.5%	39.5%	2.9%	803
Villavicencio	3.8%	24.3%	5.6%	65.0%	1.3%	4440
Yopal	3.4%	28.7%	6.3%	60.8%	0.9%	1576
Yumbo	4.2%	26.5%	6.4%	62.1%	0.8%	971
Zipaquirá	2.3%	17.2%	5.9%	73.5%	1.0%	994
Colombia	4.7%	27.6%	6.5%	59.5%	1.7%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 24.

Varias personas propusieron candidatas al reinado de su región.

Se escogió la candidata que tuvo más votos. ¿Quién ganó?

A. Ana.
B. Margarita.
C. Mónica.
D. Violeta.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Mínimo
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	8.2%	72.2%	8.6%	7.1%	4.0%	747
Antioquia	4.8%	84.6%	5.2%	3.4%	2.0%	23293
Apartadó	4.9%	82.5%	5.2%	4.8%	2.5%	1416
Arauca	4.2%	88.0%	4.1%	3.0%	0.7%	2220
Armenia	2.7%	89.9%	4.1%	2.3%	1.0%	1807
Atlántico	6.0%	79.3%	6.9%	5.0%	2.8%	4408
Barrancabermeja	2.9%	90.9%	3.1%	2.3%	0.9%	1981
Barranquilla	4.3%	87.5%	4.0%	2.8%	1.4%	8932
Bello	3.1%	90.1%	3.6%	1.8%	1.5%	3125
Bogotá, D.C.	2.2%	92.1%	2.8%	1.8%	1.1%	49170
Bolívar	9.7%	70.8%	9.7%	6.5%	3.2%	8729
Boyacá	4.2%	87.5%	4.5%	3.1%	0.7%	6308
Bucaramanga	1.9%	93.6%	2.1%	1.5%	0.9%	3875
Buenaventura	6.9%	81.8%	4.7%	4.3%	2.3%	3798
Buga	2.4%	92.3%	3.3%	1.6%	0.4%	953
Caldas	4.7%	87.6%	4.0%	2.9%	0.7%	4142
Cali	3.1%	90.3%	3.1%	2.4%	1.1%	15522
Caquetá	7.2%	81.7%	6.0%	3.9%	1.1%	2537
Cartagena	5.0%	83.6%	5.4%	3.9%	2.2%	8481
Cartago	2.9%	89.6%	3.6%	3.1%	0.7%	985
Casanare	4.9%	86.2%	4.8%	3.0%	1.1%	2442
Cauca	6.0%	81.5%	6.2%	3.9%	2.4%	10047
Cesar	5.8%	82.4%	6.4%	4.0%	1.4%	6848
Chocó	8.1%	74.0%	9.3%	6.0%	2.7%	3674
Chía	0.7%	95.8%	1.7%	1.6%	0.3%	1018
Ciénaga	6.1%	78.4%	7.6%	5.7%	2.1%	1122
Cundinamarca	3.3%	90.2%	3.6%	2.1%	0.9%	11983
Córdoba	7.4%	77.4%	8.2%	4.8%	2.1%	10669
Cúcuta	3.1%	91.6%	3.0%	1.7%	0.5%	5717
Dosquebradas	2.5%	90.8%	3.6%	2.1%	0.9%	1396
Duitama	1.8%	94.7%	2.3%	0.8%	0.4%	994
Envigado	1.4%	94.9%	1.3%	0.9%	1.6%	1149
Facatativá	2.2%	92.0%	3.6%	1.3%	0.9%	1016
Florencia	3.7%	86.9%	5.3%	3.0%	1.1%	1579
Floridablanca	1.4%	94.6%	2.1%	1.3%	0.7%	1817
Fusagasugá	2.3%	92.2%	1.7%	2.1%	1.7%	899
Girardot	3.7%	87.6%	5.3%	2.7%	0.7%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	2.8%	91.4%	2.6%	2.6%	0.6%	1086
Guainía	8.4%	75.9%	7.7%	5.5%	2.4%	453
Guaviare	6.7%	82.1%	6.3%	3.6%	1.2%	726
Huila	4.7%	85.9%	5.4%	3.1%	0.8%	6272
Ibagué	2.3%	92.3%	2.7%	2.0%	0.7%	4048
Ipiales	2.8%	91.8%	3.5%	1.8%	0.2%	1122
Itagüí	2.0%	91.5%	3.4%	2.1%	0.9%	1490
Jamundí	4.0%	86.0%	5.3%	3.1%	1.6%	870
La Guajira	7.6%	75.6%	8.3%	5.4%	3.0%	3523
Lorica	6.5%	82.6%	6.3%	3.8%	0.8%	1091
Magangué	10.3%	70.2%	9.8%	6.3%	3.3%	1324
Magdalena	7.8%	74.9%	8.7%	5.6%	3.0%	7423
Maicao	5.8%	79.9%	8.7%	3.7%	1.9%	1712
Malambo	5.1%	83.2%	5.3%	4.1%	2.4%	933
Manizales	2.6%	91.9%	3.1%	1.5%	0.9%	2198
Medellín	3.4%	89.1%	3.6%	2.2%	1.7%	15603
Meta	4.8%	86.0%	4.7%	2.8%	1.7%	4237
Montería	5.7%	82.2%	6.4%	4.1%	1.6%	4136
Mosquera	1.9%	93.8%	2.0%	1.6%	0.7%	997
Nariño	4.7%	84.1%	5.6%	3.2%	2.5%	6999
Neiva	3.6%	90.6%	3.2%	2.1%	0.6%	2702
Norte de Santander	3.9%	88.6%	3.6%	2.7%	1.1%	6361
Palmira	2.5%	93.0%	2.0%	1.6%	0.9%	2342
Pasto	2.4%	91.4%	3.2%	2.2%	0.7%	2847
Pereira	3.0%	89.7%	3.5%	2.4%	1.3%	3341
Piedecuesta	1.9%	92.9%	2.8%	1.1%	1.2%	1148
Pitalito	3.6%	88.6%	4.3%	3.0%	0.5%	1232
Popayán	2.7%	90.9%	3.2%	2.1%	1.1%	2287
Putumayo	6.5%	83.9%	5.0%	3.2%	1.4%	3100
Quibdó	5.9%	81.3%	6.1%	4.2%	2.4%	1106
Quindío	3.9%	86.6%	4.5%	3.8%	1.2%	1713
Riohacha	6.5%	79.8%	6.3%	4.7%	2.7%	2171
Rionegro	2.6%	92.6%	2.2%	1.9%	0.7%	833
Risaralda	4.4%	85.3%	5.3%	3.3%	1.8%	1923
Sabaneta	0.8%	92.8%	2.7%	2.1%	1.6%	376
Sahagún	6.5%	82.3%	5.5%	3.9%	1.9%	908
San Andrés	5.4%	82.0%	5.4%	6.6%	0.5%	423
Santa Marta	5.0%	85.0%	4.8%	3.5%	1.8%	4318
Santander	4.1%	89.3%	3.6%	2.4%	0.7%	6310

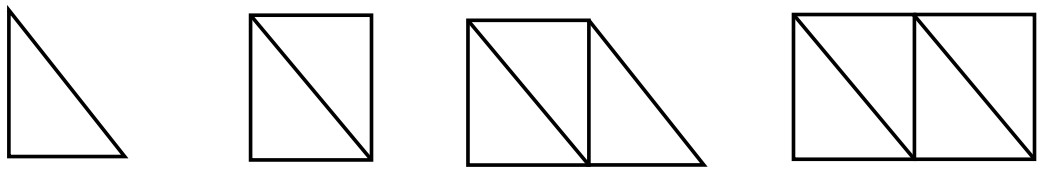
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	4.8%	86.1%	4.0%	3.7%	1.4%	2439
Soacha	2.9%	90.8%	3.4%	2.2%	0.8%	4203
Sogamoso	2.1%	93.4%	2.1%	1.9%	0.4%	1026
Soledad	4.4%	87.6%	4.2%	2.3%	1.5%	4027
Sucre	8.3%	75.1%	8.5%	5.9%	2.3%	6165
Tolima	5.6%	84.0%	5.2%	3.8%	1.5%	7271
Tuluá	2.9%	91.3%	2.7%	1.9%	1.2%	1652
Tumaco	9.5%	67.0%	9.8%	7.3%	6.4%	1940
Tunja	2.1%	93.5%	2.1%	1.5%	0.7%	1489
Turbo	8.3%	73.0%	9.2%	6.8%	2.7%	1827
Uribia	11.2%	59.5%	13.1%	9.1%	7.1%	1677
Valle del Cauca	3.9%	88.5%	3.7%	2.7%	1.2%	6692
Valledupar	4.7%	86.0%	4.4%	3.4%	1.4%	3944
Vichada	11.0%	70.2%	8.7%	7.0%	3.1%	803
Villavicencio	2.0%	92.5%	2.4%	1.9%	1.2%	4440
Yopal	2.9%	91.4%	2.9%	2.0%	0.8%	1576
Yumbo	4.0%	89.2%	3.5%	2.1%	1.2%	971
Zipaquirá	2.3%	92.5%	3.3%	1.2%	0.7%	994
Colombia	4.4%	86.2%	4.7%	3.1%	1.6%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 25.**

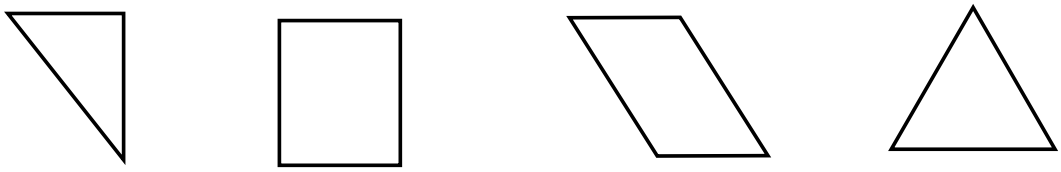
Observa la ubicación de las piezas en la secuencia.



Posición 1 Posición 2 Posición 3 Posición 4

¿Qué pieza se ubicó en la posición 3 para obtener la 4?

A. B. C. D.



- **Estructura**

Competencia	Razonamiento
Componente	Numérico - variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	48.6%	15.3%	18.3%	13.9%	3.9%	747
Antioquia	65.5%	12.0%	12.2%	7.9%	2.3%	23293
Apartadó	64.4%	12.4%	12.1%	8.5%	2.6%	1416
Arauca	67.4%	11.9%	12.0%	7.7%	0.9%	2220
Armenia	74.3%	10.5%	8.2%	5.9%	1.1%	1807
Atlántico	63.3%	11.7%	12.4%	8.9%	3.6%	4408
Barrancabermeja	75.2%	8.8%	9.6%	5.4%	1.1%	1981
Barranquilla	70.8%	10.1%	10.8%	6.4%	1.8%	8932
Bello	73.2%	9.9%	9.6%	5.4%	1.9%	3125
Bogotá, D.C.	78.2%	8.6%	7.2%	4.6%	1.4%	49170
Bolívar	54.3%	14.6%	15.1%	11.8%	4.1%	8729
Boyacá	70.8%	11.2%	10.0%	7.2%	0.9%	6308
Bucaramanga	78.6%	7.6%	7.8%	4.6%	1.4%	3875
Buenaventura	62.7%	11.9%	13.7%	8.6%	3.1%	3798
Buga	71.4%	11.0%	9.7%	6.9%	1.0%	953
Caldas	67.6%	12.8%	11.1%	7.5%	1.0%	4142
Cali	72.9%	9.6%	9.8%	6.2%	1.5%	15522
Caquetá	62.8%	12.7%	14.2%	9.1%	1.3%	2537
Cartagena	70.5%	10.4%	9.7%	7.2%	2.3%	8481
Cartago	71.0%	10.3%	12.0%	5.6%	1.2%	985
Casanare	69.3%	11.3%	11.0%	7.2%	1.2%	2442
Cauca	63.9%	13.0%	11.7%	8.4%	3.0%	10047
Cesar	63.9%	12.0%	12.6%	9.9%	1.6%	6848
Chocó	52.6%	17.3%	16.1%	11.1%	2.9%	3674
Chía	83.2%	5.5%	6.8%	4.2%	0.3%	1018
Ciénaga	61.7%	13.7%	12.3%	10.2%	2.1%	1122
Cundinamarca	74.7%	9.5%	9.2%	5.4%	1.2%	11983
Córdoba	56.6%	13.7%	15.6%	11.2%	2.8%	10669
Cúcuta	72.8%	10.9%	9.8%	5.7%	0.8%	5717
Dosquebradas	72.1%	10.7%	9.6%	5.9%	1.6%	1396
Duitama	82.1%	6.6%	7.7%	3.2%	0.3%	994
Envigado	80.2%	6.3%	8.0%	3.7%	1.7%	1149
Facatativá	77.2%	8.7%	7.6%	5.4%	1.2%	1016
Florencia	63.0%	12.6%	14.3%	8.2%	2.0%	1579
Floridablanca	81.6%	6.3%	6.7%	4.3%	1.1%	1817
Fusagasugá	77.0%	8.6%	8.1%	4.8%	1.6%	899
Girardot	67.0%	11.4%	12.1%	8.0%	1.5%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	74.1%	8.7%	9.9%	6.4%	0.7%	1086
Guainía	48.1%	17.4%	21.0%	9.5%	4.0%	453
Guaviare	59.5%	14.7%	14.7%	9.1%	1.9%	726
Huila	66.2%	12.3%	12.1%	8.1%	1.2%	6272
Ibagué	74.2%	9.8%	8.9%	6.3%	0.8%	4048
Ipiales	76.8%	8.2%	6.8%	7.8%	0.4%	1122
Itagüí	76.6%	8.9%	8.9%	4.7%	0.9%	1490
Jamundí	67.6%	13.8%	8.9%	7.9%	1.8%	870
La Guajira	58.6%	12.5%	15.0%	10.6%	3.4%	3523
Lorica	63.7%	12.9%	14.1%	7.8%	1.5%	1091
Magangué	53.7%	14.4%	17.1%	11.3%	3.4%	1324
Magdalena	57.9%	12.9%	14.4%	10.8%	4.1%	7423
Maicao	56.5%	15.5%	13.9%	11.6%	2.5%	1712
Malambo	69.5%	10.0%	10.9%	6.5%	3.1%	933
Manizales	76.0%	9.6%	8.0%	5.5%	1.0%	2198
Medellín	70.4%	10.7%	10.5%	6.4%	2.1%	15603
Meta	67.1%	11.4%	11.3%	8.5%	1.7%	4237
Montería	63.2%	12.3%	14.0%	8.7%	1.8%	4136
Mosquera	78.8%	8.7%	7.3%	4.1%	1.0%	997
Nariño	67.1%	11.5%	10.6%	8.0%	2.8%	6999
Neiva	70.7%	10.5%	10.6%	7.3%	0.9%	2702
Norte de Santander	71.1%	11.1%	9.9%	6.7%	1.2%	6361
Palmira	74.6%	9.8%	8.1%	5.9%	1.5%	2342
Pasto	75.3%	9.5%	8.0%	6.3%	1.0%	2847
Pereira	73.5%	10.2%	9.0%	5.7%	1.6%	3341
Piedecuesta	78.5%	7.6%	8.3%	4.3%	1.4%	1148
Pitalito	70.9%	11.3%	10.0%	7.1%	0.7%	1232
Popayán	76.0%	9.0%	8.1%	5.6%	1.3%	2287
Putumayo	63.0%	13.8%	13.1%	8.3%	1.9%	3100
Quibdó	58.0%	14.9%	14.2%	9.4%	3.4%	1106
Quindío	68.9%	12.7%	8.8%	7.9%	1.6%	1713
Riohacha	62.4%	11.7%	12.6%	10.7%	2.5%	2171
Rionegro	78.0%	9.4%	7.3%	4.7%	0.6%	833
Risaralda	66.9%	13.5%	9.3%	7.8%	2.5%	1923
Sabaneta	77.9%	10.4%	6.1%	4.0%	1.6%	376
Sahagún	64.1%	12.9%	12.2%	8.6%	2.2%	908
San Andrés	65.0%	11.8%	9.9%	11.8%	1.4%	423
Santa Marta	67.7%	10.8%	11.5%	7.9%	2.1%	4318
Santander	72.7%	9.8%	10.0%	6.5%	1.0%	6310

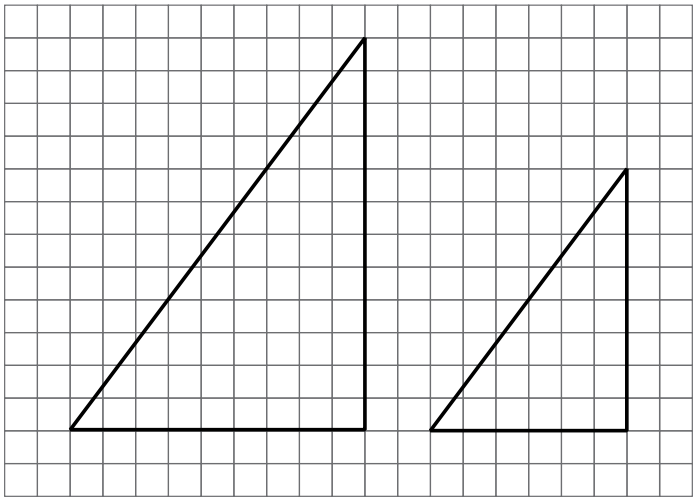
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	69.0%	10.5%	11.0%	7.5%	1.9%	2439
Soacha	75.7%	9.5%	8.2%	5.5%	1.1%	4203
Sogamoso	78.5%	8.8%	6.8%	5.3%	0.7%	1026
Soledad	73.2%	9.1%	9.3%	6.4%	2.1%	4027
Sucre	57.5%	14.1%	14.7%	11.0%	2.7%	6165
Tolima	64.5%	12.7%	12.0%	9.0%	1.8%	7271
Tuluá	72.3%	9.4%	10.6%	6.5%	1.3%	1652
Tumaco	49.4%	15.1%	16.4%	12.1%	7.0%	1940
Tunja	79.9%	7.5%	6.9%	5.0%	0.7%	1489
Turbo	55.6%	12.8%	17.4%	11.1%	3.2%	1827
Uribia	39.1%	20.8%	17.2%	15.7%	7.3%	1677
Valle del Cauca	68.9%	11.5%	10.8%	7.1%	1.8%	6692
Valledupar	67.4%	11.0%	11.0%	8.0%	2.5%	3944
Vichada	46.8%	19.2%	16.3%	14.6%	3.1%	803
Villavicencio	74.9%	9.1%	8.5%	5.6%	1.9%	4440
Yopal	72.7%	10.3%	9.2%	6.7%	1.1%	1576
Yumbo	71.7%	9.8%	9.2%	7.6%	1.8%	971
Zipaquirá	77.5%	7.2%	8.5%	5.9%	0.9%	994
Colombia	69.0%	11.0%	10.7%	7.3%	1.9%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 26.**

¿Cómo se puede obtener la figura más pequeña a partir de la más grande?



A. Trasladándola.

B. Girándola.

C. Reduciéndola.

D. Reflejándola.

- **Estructura**

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Establecer conjeturas acerca de las propiedades de las figuras planas cuando sobre ellas se ha hecho una transformación (traslación, rotación, reflexión (simetría), ampliación, reducción).
Nivel de desempeño	Avanzado
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	21.3%	20.1%	36.3%	17.9%	4.4%	747
Antioquia	20.1%	11.1%	50.7%	15.7%	2.4%	23293
Apartadó	23.2%	10.7%	46.1%	17.4%	2.5%	1416
Arauca	19.7%	10.4%	51.3%	17.7%	1.0%	2220
Armenia	18.8%	8.2%	55.0%	16.9%	1.2%	1807
Atlántico	19.9%	10.5%	48.6%	17.2%	3.8%	4408
Barrancabermeja	19.3%	8.4%	56.2%	14.7%	1.4%	1981
Barranquilla	18.7%	9.2%	53.7%	16.4%	2.0%	8932
Bello	18.8%	9.3%	54.7%	15.1%	2.0%	3125
Bogotá, D.C.	16.6%	8.5%	58.8%	14.5%	1.6%	49170
Bolívar	21.3%	13.2%	42.0%	19.4%	4.1%	8729
Boyacá	20.6%	11.5%	50.3%	16.7%	1.0%	6308
Bucaramanga	16.9%	6.2%	59.8%	15.8%	1.2%	3875
Buenaventura	18.5%	11.4%	51.8%	15.6%	2.7%	3798
Buga	16.4%	8.7%	59.6%	14.2%	1.2%	953
Caldas	19.7%	10.5%	54.1%	14.7%	1.2%	4142
Cali	16.8%	8.7%	59.0%	14.0%	1.4%	15522
Caquetá	19.2%	10.4%	53.6%	15.0%	1.7%	2537
Cartagena	17.7%	10.3%	54.6%	14.9%	2.5%	8481
Cartago	18.0%	9.8%	57.1%	14.0%	1.1%	985
Casanare	21.7%	11.0%	49.8%	16.2%	1.3%	2442
Cauca	19.1%	10.5%	54.2%	13.4%	2.8%	10047
Cesar	20.2%	10.2%	51.7%	16.2%	1.7%	6848
Chocó	16.8%	13.1%	51.7%	15.3%	3.2%	3674
Chía	15.7%	7.6%	60.8%	15.5%	0.4%	1018
Ciénaga	21.5%	9.8%	48.5%	18.1%	2.1%	1122
Cundinamarca	18.5%	9.8%	55.1%	15.4%	1.2%	11983
Córdoba	21.0%	11.8%	46.0%	18.3%	2.8%	10669
Cúcuta	20.6%	9.5%	53.0%	16.0%	0.9%	5717
Dosquebradas	17.6%	8.6%	58.8%	13.3%	1.6%	1396
Duitama	15.3%	6.5%	64.9%	13.0%	0.3%	994
Envigado	16.0%	4.6%	64.9%	12.6%	1.8%	1149
Facatativá	18.0%	9.1%	55.1%	16.0%	1.8%	1016
Florencia	22.0%	11.5%	44.8%	19.8%	1.9%	1579
Floridablanca	15.5%	4.8%	65.7%	13.3%	0.7%	1817
Fusagasugá	19.2%	7.9%	55.3%	15.8%	1.8%	899
Girardot	22.2%	11.8%	47.8%	17.1%	1.1%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	19.5%	8.7%	54.9%	15.7%	1.2%	1086
Guainía	17.4%	17.0%	40.6%	19.6%	5.3%	453
Guaviare	20.8%	12.3%	49.7%	15.6%	1.7%	726
Huila	21.0%	11.4%	48.3%	18.0%	1.2%	6272
Ibagué	18.4%	7.2%	59.5%	13.8%	1.1%	4048
Ipiales	19.0%	10.6%	57.5%	12.2%	0.7%	1122
Itagüí	19.5%	9.1%	56.5%	13.8%	1.1%	1490
Jamundí	20.5%	11.0%	50.9%	15.4%	2.2%	870
La Guajira	18.5%	10.9%	50.6%	16.2%	3.9%	3523
Lorica	15.9%	13.1%	54.4%	14.8%	1.7%	1091
Magangué	19.3%	12.9%	43.8%	19.8%	4.2%	1324
Magdalena	18.6%	11.4%	50.4%	15.4%	4.2%	7423
Maicao	21.4%	14.3%	44.7%	17.1%	2.5%	1712
Malambo	17.9%	12.2%	52.4%	14.7%	2.8%	933
Manizales	19.2%	9.3%	58.6%	11.6%	1.3%	2198
Medellín	20.9%	9.7%	51.8%	15.4%	2.2%	15603
Meta	21.1%	11.7%	47.0%	18.2%	2.0%	4237
Montería	21.4%	11.2%	47.3%	18.2%	2.0%	4136
Mosquera	16.1%	9.6%	57.3%	16.1%	0.8%	997
Nariño	17.6%	10.0%	56.2%	13.2%	3.0%	6999
Neiva	22.2%	8.8%	50.6%	17.7%	0.7%	2702
Norte de Santander	18.7%	9.6%	55.3%	15.1%	1.3%	6361
Palmira	19.0%	6.9%	58.4%	14.4%	1.3%	2342
Pasto	18.8%	8.0%	57.0%	15.2%	1.0%	2847
Pereira	17.7%	7.4%	59.7%	13.6%	1.6%	3341
Piedecuesta	13.5%	7.8%	60.1%	17.2%	1.5%	1148
Pitalito	19.2%	9.5%	55.9%	14.5%	0.8%	1232
Popayán	16.0%	8.6%	62.3%	11.6%	1.5%	2287
Putumayo	18.5%	12.3%	51.8%	15.9%	1.6%	3100
Quibdó	20.6%	11.4%	46.4%	17.7%	3.9%	1106
Quindío	18.9%	10.6%	53.5%	15.6%	1.4%	1713
Riohacha	17.3%	12.1%	52.3%	15.6%	2.6%	2171
Rionegro	19.2%	8.0%	54.7%	17.2%	0.8%	833
Risaralda	18.9%	10.0%	55.5%	12.8%	2.7%	1923
Sabaneta	15.4%	6.9%	63.3%	12.5%	1.9%	376
Sahagún	19.6%	10.4%	49.8%	18.2%	2.1%	908
San Andrés	21.0%	12.1%	47.3%	18.0%	1.7%	423
Santa Marta	19.4%	9.1%	54.0%	15.2%	2.2%	4318
Santander	17.8%	9.2%	57.2%	14.9%	0.9%	6310

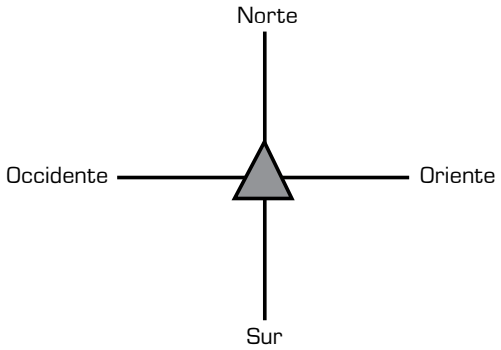
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	20.7%	8.9%	51.9%	16.2%	2.2%	2439
Soacha	19.3%	9.7%	54.6%	15.3%	1.0%	4203
Sogamoso	17.4%	8.1%	58.4%	15.5%	0.6%	1026
Soledad	19.5%	8.3%	53.3%	17.0%	1.9%	4027
Sucre	20.8%	12.9%	44.8%	18.8%	2.7%	6165
Tolima	20.6%	11.0%	49.4%	16.9%	2.0%	7271
Tuluá	17.6%	8.2%	58.5%	14.6%	1.0%	1652
Tumaco	21.0%	13.9%	41.9%	15.8%	7.5%	1940
Tunja	14.8%	8.7%	59.8%	16.1%	0.6%	1489
Turbo	22.7%	12.0%	43.5%	18.2%	3.6%	1827
Uribia	18.2%	17.1%	41.9%	15.0%	7.9%	1677
Valle del Cauca	18.4%	9.8%	56.5%	13.6%	1.6%	6692
Valledupar	19.6%	9.1%	54.9%	14.2%	2.1%	3944
Vichada	24.3%	12.2%	41.2%	18.7%	3.6%	803
Villavicencio	16.9%	9.2%	57.7%	14.6%	1.6%	4440
Yopal	20.0%	8.9%	53.0%	16.8%	1.3%	1576
Yumbo	16.9%	7.9%	59.1%	14.4%	1.6%	971
Zipaquirá	15.9%	7.2%	61.8%	13.9%	1.2%	994
Colombia	18.9%	10.0%	53.6%	15.5%	2.0%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 27.**

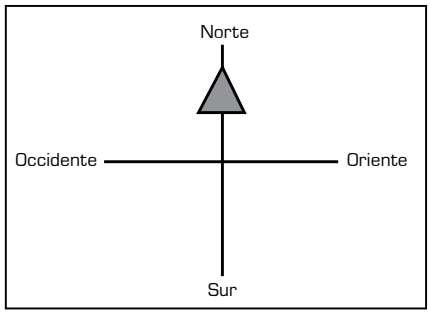
César debe mover una ficha según la dirección que lea en una tarjeta. Observa la ubicación inicial de la ficha.



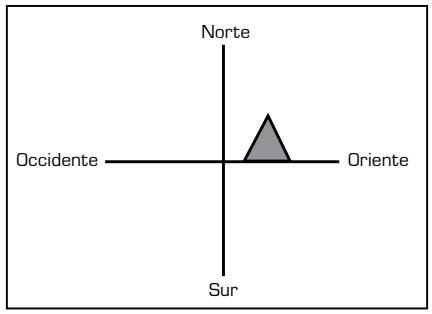
César escogió esta tarjeta.

¿Dónde debe ubicarse la ficha de César ahora?

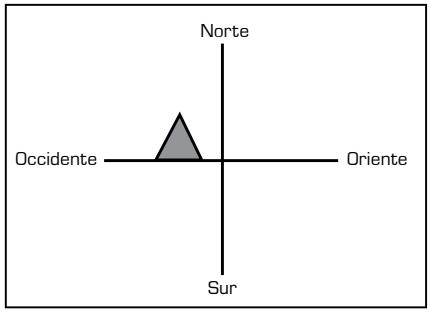
A.



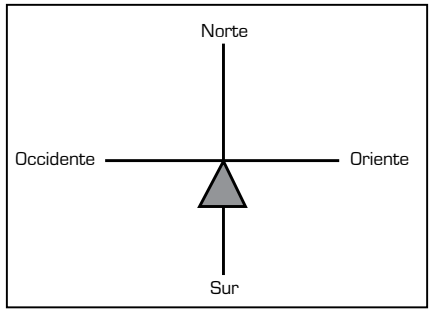
B.



C.



D.



• Estructura

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Establecer conjeturas acerca de las propiedades de las figuras planas cuando sobre ellas se ha hecho una transformación (traslación, rotación, reflexión (simetría), ampliación, reducción).
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	62.4%	9.5%	6.3%	18.2%	3.6%	747
Antioquia	74.9%	6.3%	4.1%	12.7%	1.9%	23293
Apartadó	73.4%	5.8%	4.6%	14.2%	2.0%	1416
Arauca	76.1%	5.4%	3.9%	13.9%	0.7%	2220
Armenia	80.1%	3.6%	2.9%	12.3%	1.0%	1807
Atlántico	71.5%	6.9%	5.1%	13.8%	2.7%	4408
Barrancabermeja	81.0%	4.4%	2.3%	11.6%	0.7%	1981
Barranquilla	79.8%	4.3%	3.0%	11.5%	1.4%	8932
Bello	81.8%	2.8%	2.7%	11.1%	1.5%	3125
Bogotá, D.C.	84.6%	2.7%	1.9%	9.6%	1.2%	49170
Bolívar	64.3%	8.7%	7.2%	16.8%	3.0%	8729
Boyacá	76.3%	5.3%	4.2%	13.5%	0.7%	6308
Bucaramanga	84.5%	2.8%	1.9%	9.8%	1.0%	3875
Buenaventura	73.3%	6.3%	5.4%	12.9%	2.1%	3798
Buga	82.1%	4.1%	2.3%	11.0%	0.5%	953
Caldas	78.0%	5.0%	3.6%	12.6%	0.8%	4142
Cali	82.7%	3.4%	2.4%	10.4%	1.1%	15522
Caquetá	73.0%	7.9%	5.0%	13.2%	1.0%	2537
Cartagena	77.2%	5.7%	3.5%	11.7%	1.9%	8481
Cartago	80.8%	3.0%	3.0%	12.2%	0.9%	985
Casanare	74.8%	5.9%	3.4%	14.7%	1.3%	2442
Cauca	74.0%	7.6%	5.1%	11.1%	2.2%	10047
Cesar	72.1%	7.2%	5.9%	13.5%	1.2%	6848
Chocó	67.1%	7.9%	6.8%	15.4%	2.8%	3674
Chía	86.0%	2.0%	2.6%	9.1%	0.4%	1018
Ciénaga	76.2%	5.2%	4.3%	12.3%	2.0%	1122

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Cundinamarca	82.0%	3.8%	2.6%	10.6%	1.0%	11983
Córdoba	68.2%	8.1%	6.1%	15.4%	2.3%	10669
Cúcuta	82.0%	3.6%	2.2%	11.4%	0.7%	5717
Dosquebradas	81.3%	3.5%	2.7%	11.7%	0.8%	1396
Duitama	87.6%	2.1%	1.0%	9.0%	0.3%	994
Envigado	87.0%	2.8%	1.9%	6.7%	1.6%	1149
Facatativá	84.0%	2.7%	2.4%	10.1%	0.9%	1016
Florencia	76.1%	4.1%	4.1%	14.6%	1.2%	1579
Floridablanca	86.0%	2.6%	2.2%	8.7%	0.6%	1817
Fusagasugá	81.9%	3.4%	2.6%	10.6%	1.6%	899
Girardot	81.5%	3.5%	3.2%	11.4%	0.4%	712
Girón	80.7%	4.8%	2.3%	11.8%	0.5%	1086
Guainía	68.2%	7.1%	6.2%	14.8%	3.8%	453
Guaviare	72.9%	7.9%	4.7%	13.1%	1.5%	726
Huila	75.6%	5.7%	3.5%	14.3%	0.8%	6272
Ibagué	83.6%	3.0%	2.5%	10.1%	0.9%	4048
Ipiales	81.0%	3.7%	2.7%	12.2%	0.4%	1122
Itagüí	82.6%	3.4%	2.6%	10.4%	1.0%	1490
Jamundí	77.2%	4.6%	3.7%	13.6%	0.9%	870
La Guajira	68.4%	8.5%	5.9%	14.5%	2.6%	3523
Lorica	74.6%	6.5%	5.5%	12.5%	0.9%	1091
Magangué	63.7%	8.4%	6.4%	17.5%	3.9%	1324
Magdalena	69.5%	8.3%	5.5%	13.8%	2.9%	7423
Maicao	68.9%	8.0%	6.4%	15.4%	1.3%	1712
Malambo	73.2%	9.0%	3.0%	13.3%	1.5%	933
Manizales	83.0%	3.6%	2.0%	10.5%	0.9%	2198
Medellín	80.2%	3.8%	2.9%	11.3%	1.8%	15603
Meta	75.4%	6.4%	3.0%	13.7%	1.5%	4237
Montería	74.6%	6.1%	4.6%	13.5%	1.2%	4136
Mosquera	84.0%	2.7%	1.4%	11.4%	0.5%	997
Nariño	75.1%	6.5%	4.3%	11.7%	2.5%	6999
Neiva	81.5%	4.0%	2.5%	11.4%	0.6%	2702
Norte de Santander	80.2%	4.4%	3.1%	11.2%	1.1%	6361
Palmira	83.9%	2.9%	1.8%	10.5%	0.9%	2342
Pasto	82.2%	3.5%	2.2%	11.3%	0.8%	2847
Pereira	82.2%	4.0%	2.5%	10.3%	1.0%	3341
Piedecuesta	84.1%	2.7%	2.0%	10.0%	1.2%	1148
Pitalito	76.5%	5.4%	2.9%	14.3%	0.9%	1232
Popayán	80.6%	5.3%	2.4%	10.7%	1.0%	2287

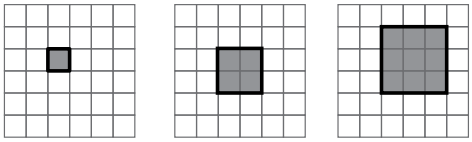
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Putumayo	73.5%	6.3%	4.7%	14.2%	1.3%	3100
Quibdó	68.9%	6.1%	5.4%	16.8%	2.8%	1106
Quindío	77.5%	5.3%	3.1%	12.9%	1.2%	1713
Riohacha	74.0%	6.8%	5.6%	11.6%	2.0%	2171
Rionegro	82.6%	3.0%	2.0%	11.4%	1.0%	833
Risaralda	79.1%	4.4%	3.6%	11.1%	1.8%	1923
Sabaneta	85.6%	3.2%	2.9%	6.4%	1.9%	376
Sahagún	75.1%	5.3%	4.6%	13.1%	1.9%	908
San Andrés	72.8%	2.4%	4.0%	20.1%	0.7%	423
Santa Marta	78.4%	4.2%	3.4%	12.1%	1.9%	4318
Santander	78.8%	4.7%	3.4%	12.4%	0.8%	6310
Sincelejo	74.9%	5.5%	3.0%	15.0%	1.6%	2439
Soacha	82.7%	2.9%	2.0%	11.7%	0.7%	4203
Sogamoso	82.9%	2.6%	2.3%	11.7%	0.4%	1026
Soledad	79.3%	3.9%	3.1%	12.3%	1.4%	4027
Sucre	67.0%	8.2%	6.2%	16.5%	2.1%	6165
Tolima	76.6%	5.1%	4.1%	12.8%	1.3%	7271
Tuluá	82.0%	4.1%	2.1%	10.8%	1.0%	1652
Tumaco	63.2%	9.2%	6.2%	15.8%	5.6%	1940
Tunja	86.1%	3.4%	1.5%	8.6%	0.4%	1489
Turbo	66.1%	9.9%	7.3%	14.2%	2.5%	1827
Uribia	60.2%	10.7%	8.5%	14.6%	5.9%	1677
Valle del Cauca	79.2%	3.9%	3.6%	12.2%	1.1%	6692
Valledupar	77.5%	5.3%	3.6%	11.8%	1.7%	3944
Vichada	64.0%	10.6%	5.9%	16.1%	3.5%	803
Villavicencio	84.2%	3.2%	2.0%	9.2%	1.4%	4440
Yopal	81.5%	3.5%	2.7%	11.4%	0.9%	1576
Yumbo	80.3%	5.3%	2.5%	10.9%	1.0%	971
Zipaquirá	84.1%	2.0%	2.8%	10.3%	0.8%	994
Colombia	77.8%	5.0%	3.6%	12.1%	1.5%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

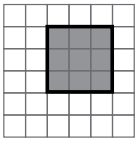
• Pregunta 28.

Observa la secuencia.

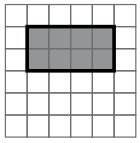


Primera posición *Segunda posición* *Tercera posición*

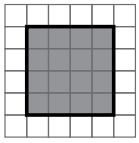
¿Cuál es la figura que debe ocupar la cuarta posición?

A. 

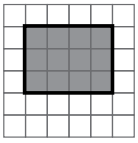
Cuarta posición

B. 

Cuarta posición

C. 

Cuarta posición

D. 

Cuarta posición

• Estructura

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Construir y describir secuencias numéricas y geométricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	15.3%	14.3%	54.8%	12.6%	3.1%	747
Antioquia	17.3%	10.3%	57.6%	12.7%	2.0%	23293
Apartadó	19.9%	12.1%	53.4%	12.4%	2.3%	1416
Arauca	17.5%	8.8%	61.8%	11.4%	0.5%	2220
Armenia	16.0%	7.9%	64.4%	10.6%	1.1%	1807
Atlántico	16.9%	10.8%	54.3%	14.9%	3.2%	4408
Barrancabermeja	15.6%	8.0%	63.0%	12.5%	0.9%	1981
Barranquilla	16.8%	9.4%	60.1%	12.3%	1.4%	8932
Bello	15.5%	7.8%	61.9%	13.2%	1.6%	3125
Bogotá, D.C.	13.0%	6.6%	69.0%	10.3%	1.2%	49170
Bolívar	17.9%	14.1%	49.9%	14.5%	3.6%	8729
Boyacá	15.6%	8.4%	63.7%	11.6%	0.7%	6308
Bucaramanga	13.9%	6.5%	68.0%	10.6%	1.0%	3875
Buenaventura	15.8%	11.5%	55.8%	14.9%	2.1%	3798
Buga	14.6%	8.9%	65.6%	10.3%	0.6%	953
Caldas	17.0%	9.7%	61.9%	10.3%	1.1%	4142
Cali	14.8%	8.0%	63.3%	12.7%	1.2%	15522
Caquetá	16.1%	10.5%	59.7%	12.6%	1.2%	2537
Cartagena	16.3%	9.6%	59.3%	12.8%	2.1%	8481
Cartago	12.6%	9.0%	66.6%	11.0%	0.8%	985
Casanare	17.1%	9.2%	60.3%	12.2%	1.2%	2442
Cauca	14.6%	10.4%	59.6%	13.0%	2.3%	10047
Cesar	17.1%	11.8%	56.9%	12.9%	1.2%	6848
Chocó	16.2%	13.5%	51.3%	16.3%	2.7%	3674
Chía	11.8%	4.7%	72.0%	11.2%	0.3%	1018
Ciénaga	18.2%	13.1%	53.5%	13.4%	1.9%	1122
Cundinamarca	14.5%	7.2%	66.7%	10.6%	1.0%	11983
Córdoba	17.0%	12.7%	53.2%	14.9%	2.2%	10669
Cúcuta	15.6%	7.3%	65.0%	11.4%	0.8%	5717
Dosquebradas	17.8%	9.1%	61.7%	10.5%	0.9%	1396
Duitama	9.2%	4.9%	75.8%	9.9%	0.3%	994
Envigado	12.0%	5.2%	70.9%	10.0%	1.8%	1149
Facatativá	14.7%	6.0%	67.3%	11.0%	1.0%	1016
Florencia	18.2%	10.1%	59.9%	10.7%	1.1%	1579
Floridablanca	11.5%	4.1%	73.0%	10.8%	0.6%	1817
Fusagasugá	13.5%	6.8%	67.6%	10.2%	1.9%	899
Girardot	16.7%	10.5%	60.5%	10.8%	1.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	15.0%	8.3%	64.6%	11.3%	0.7%	1086
Guainía	13.7%	15.7%	53.2%	12.8%	4.6%	453
Guaviare	16.7%	11.6%	56.6%	13.4%	1.8%	726
Huila	17.2%	9.7%	60.3%	11.8%	1.0%	6272
Ibagué	14.1%	7.4%	65.1%	12.4%	0.9%	4048
Ipiales	14.5%	7.6%	64.9%	12.5%	0.5%	1122
Itagüí	14.5%	8.1%	65.9%	10.3%	1.1%	1490
Jamundí	17.6%	9.3%	60.8%	10.6%	1.7%	870
La Guajira	17.0%	13.1%	52.7%	14.1%	3.1%	3523
Lorica	15.0%	11.7%	60.2%	12.2%	0.8%	1091
Magangué	18.8%	15.3%	47.5%	14.9%	3.5%	1324
Magdalena	15.4%	12.8%	53.4%	15.1%	3.4%	7423
Maicao	16.9%	13.6%	53.4%	13.8%	2.2%	1712
Malambo	15.3%	11.3%	58.7%	12.6%	2.0%	933
Manizales	15.4%	7.3%	65.7%	10.7%	0.9%	2198
Medellín	15.8%	9.7%	60.0%	12.6%	1.8%	15603
Meta	17.1%	10.0%	58.7%	12.4%	1.8%	4237
Montería	17.4%	11.9%	55.9%	13.4%	1.4%	4136
Mosquera	13.6%	6.7%	66.8%	11.9%	0.9%	997
Nariño	13.8%	9.2%	61.6%	12.5%	2.9%	6999
Neiva	17.3%	8.0%	62.4%	11.5%	0.7%	2702
Norte de Santander	15.6%	8.3%	64.1%	10.9%	1.1%	6361
Palmira	15.5%	7.5%	65.6%	10.2%	1.1%	2342
Pasto	13.3%	6.6%	69.1%	10.1%	1.0%	2847
Pereira	16.0%	8.7%	63.5%	10.7%	1.1%	3341
Piedecuesta	13.0%	7.6%	69.0%	9.4%	1.0%	1148
Pitalito	16.7%	9.0%	61.9%	11.4%	1.0%	1232
Popayán	12.1%	6.8%	69.5%	10.5%	1.2%	2287
Putumayo	16.0%	9.3%	60.2%	12.8%	1.8%	3100
Quibdó	18.2%	11.2%	53.0%	14.6%	3.0%	1106
Quindío	18.3%	8.2%	61.3%	10.8%	1.5%	1713
Riohacha	17.4%	11.6%	53.8%	14.7%	2.5%	2171
Rionegro	15.4%	9.6%	65.1%	9.2%	0.7%	833
Risaralda	16.6%	9.6%	59.6%	12.1%	2.0%	1923
Sabaneta	12.2%	5.3%	69.4%	11.2%	1.9%	376
Sahagún	16.3%	10.1%	58.1%	13.5%	1.9%	908
San Andrés	17.0%	11.6%	55.1%	15.1%	1.2%	423
Santa Marta	17.4%	10.0%	57.9%	12.9%	1.8%	4318
Santander	16.0%	8.4%	64.0%	11.0%	0.6%	6310

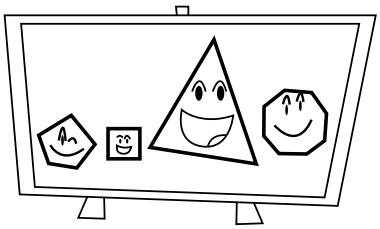
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	16.1%	9.6%	58.3%	14.3%	1.6%	2439
Soacha	14.5%	7.5%	66.2%	11.0%	0.8%	4203
Sogamoso	13.4%	7.3%	69.6%	9.2%	0.6%	1026
Soledad	16.6%	8.8%	59.8%	13.2%	1.5%	4027
Sucre	18.1%	13.7%	51.7%	14.4%	2.0%	6165
Tolima	16.9%	9.8%	59.9%	11.9%	1.5%	7271
Tuluá	16.8%	7.6%	63.3%	11.1%	1.2%	1652
Tumaco	16.5%	14.5%	48.1%	15.3%	5.5%	1940
Tunja	12.4%	4.8%	71.1%	11.2%	0.5%	1489
Turbo	17.5%	15.4%	48.7%	15.8%	2.7%	1827
Uribia	12.5%	16.9%	48.7%	14.9%	7.0%	1677
Valle del Cauca	16.6%	8.6%	62.3%	11.3%	1.2%	6692
Valledupar	16.0%	9.3%	59.9%	12.7%	2.1%	3944
Vichada	15.1%	13.8%	54.9%	12.7%	3.5%	803
Villavicencio	14.5%	7.7%	64.8%	11.5%	1.5%	4440
Yopal	17.3%	7.7%	63.8%	10.2%	1.0%	1576
Yumbo	16.3%	8.2%	61.9%	12.5%	1.1%	971
Zipaquirá	11.9%	6.2%	71.4%	9.4%	1.1%	994
Colombia	15.6%	9.3%	61.3%	12.2%	1.6%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

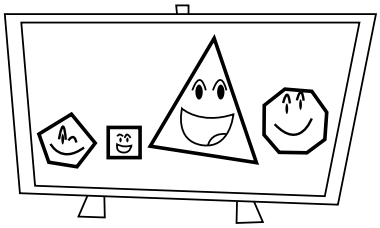
- **Pregunta 29.**

Laura tiene las siguientes figuras sobre un tablero.

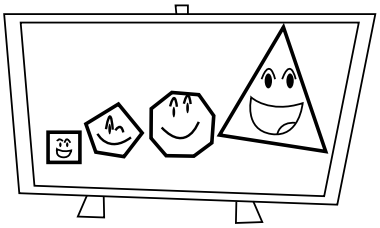


Laura ordenó las figuras por tamaño. ¿En cuál tablero se muestran ordenadas, empezando por la más pequeña?

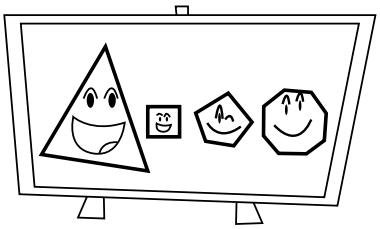
A.



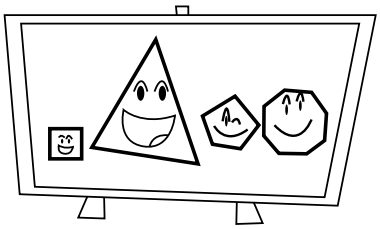
B.



C.



D.



- **Estructura**

Competencia	Razonamiento
Componente	Geométrico - métrico
Afirmación	Ordenar objetos bidimensionales y tridimensionales de acuerdo con atributos medibles.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.7%	58.8%	11.4%	8.0%	3.1%	747
Antioquia	16.0%	70.0%	5.7%	6.2%	2.1%	23293
Apartadó	18.2%	68.4%	5.6%	5.7%	2.1%	1416
Arauca	18.6%	70.6%	4.9%	4.9%	1.0%	2220
Armenia	13.7%	77.6%	3.0%	4.6%	1.1%	1807
Atlántico	21.1%	62.3%	6.7%	6.6%	3.2%	4408
Barrancabermeja	15.4%	76.7%	3.8%	3.0%	1.1%	1981
Barranquilla	19.0%	70.8%	4.2%	4.5%	1.5%	8932
Bello	13.3%	77.4%	3.5%	4.1%	1.8%	3125
Bogotá, D.C.	11.0%	83.1%	2.2%	2.5%	1.2%	49170
Bolívar	22.5%	53.4%	11.3%	9.3%	3.5%	8729
Boyacá	13.8%	77.1%	4.1%	4.3%	0.8%	6308
Bucaramanga	12.8%	81.8%	2.0%	2.3%	1.1%	3875
Buenaventura	18.6%	65.3%	8.0%	5.7%	2.4%	3798
Buga	13.7%	76.7%	4.5%	4.3%	0.7%	953
Caldas	16.5%	71.6%	5.3%	5.5%	1.0%	4142
Cali	15.3%	76.3%	3.7%	3.4%	1.2%	15522
Caquetá	14.9%	69.4%	7.1%	7.3%	1.3%	2537
Cartagena	18.8%	68.5%	5.3%	5.1%	2.4%	8481
Cartago	18.8%	71.7%	4.1%	4.6%	0.9%	985
Casanare	18.2%	71.6%	4.4%	4.6%	1.1%	2442
Cauca	15.7%	67.7%	7.0%	7.5%	2.2%	10047
Cesar	18.0%	65.7%	7.6%	7.3%	1.4%	6848
Chocó	20.7%	58.5%	9.6%	8.5%	2.7%	3674
Chía	7.7%	88.0%	2.5%	1.6%	0.3%	1018
Ciénaga	22.0%	60.1%	9.4%	6.5%	2.0%	1122
Cundinamarca	13.3%	79.7%	2.6%	3.4%	0.9%	11983
Córdoba	20.1%	60.4%	8.9%	8.1%	2.5%	10669
Cúcuta	15.7%	77.4%	2.7%	3.3%	0.9%	5717
Dosquebradas	15.0%	75.9%	3.9%	4.1%	1.1%	1396
Duitama	7.8%	88.4%	1.6%	1.4%	0.7%	994
Envigado	7.6%	85.9%	2.1%	2.6%	1.8%	1149
Facatativá	10.7%	84.4%	2.0%	1.8%	1.2%	1016
Florencia	20.6%	66.8%	5.3%	6.0%	1.4%	1579
Floridablanca	11.0%	84.1%	2.6%	1.5%	0.8%	1817
Fusagasugá	14.0%	79.2%	2.3%	2.6%	1.9%	899
Girardot	21.9%	68.5%	4.5%	3.7%	1.4%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	17.9%	75.3%	2.7%	3.5%	0.6%	1086
Guainía	17.9%	60.3%	9.1%	8.6%	4.2%	453
Guaviare	19.3%	65.4%	6.7%	6.3%	2.2%	726
Huila	17.4%	70.5%	5.5%	5.5%	1.1%	6272
Ibagué	13.6%	80.1%	2.5%	3.0%	0.9%	4048
Ipiales	12.1%	80.4%	3.6%	3.1%	0.8%	1122
Itagüí	14.0%	77.7%	4.0%	3.4%	1.0%	1490
Jamundí	17.6%	68.9%	5.9%	6.0%	1.7%	870
La Guajira	17.2%	61.5%	10.1%	8.4%	2.9%	3523
Lorica	20.1%	64.6%	7.5%	6.8%	1.0%	1091
Magangué	23.9%	52.2%	10.1%	10.5%	3.3%	1324
Magdalena	17.8%	60.4%	9.4%	8.9%	3.4%	7423
Maicao	20.2%	61.7%	8.2%	7.7%	2.2%	1712
Malambo	22.2%	62.6%	7.6%	5.3%	2.4%	933
Manizales	12.8%	79.0%	2.7%	4.5%	1.0%	2198
Medellín	14.7%	75.1%	3.6%	4.6%	1.9%	15603
Meta	16.9%	71.1%	5.2%	5.1%	1.7%	4237
Montería	18.1%	67.6%	6.9%	5.9%	1.5%	4136
Mosquera	10.6%	84.9%	2.1%	1.8%	0.6%	997
Nariño	14.2%	71.5%	5.7%	5.8%	2.8%	6999
Neiva	16.7%	75.6%	3.1%	4.0%	0.6%	2702
Norte de Santander	15.1%	75.7%	3.9%	4.2%	1.1%	6361
Palmira	14.0%	78.2%	2.8%	4.1%	0.9%	2342
Pasto	10.8%	81.8%	3.2%	3.1%	1.1%	2847
Pereira	14.2%	76.5%	3.5%	4.6%	1.1%	3341
Piedecuesta	11.3%	82.8%	2.1%	2.4%	1.3%	1148
Pitalito	16.1%	74.9%	4.1%	4.2%	0.7%	1232
Popayán	11.3%	80.9%	2.9%	3.5%	1.3%	2287
Putumayo	17.5%	69.5%	5.5%	5.7%	1.9%	3100
Quibdó	20.6%	60.6%	8.8%	7.1%	3.0%	1106
Quindío	15.6%	71.7%	4.4%	6.9%	1.4%	1713
Riohacha	19.1%	63.7%	7.6%	6.8%	2.8%	2171
Rionegro	10.7%	82.4%	2.2%	3.7%	1.1%	833
Risaralda	15.5%	72.1%	4.8%	5.4%	2.2%	1923
Sabaneta	9.6%	82.4%	2.1%	4.0%	1.9%	376
Sahagún	18.2%	66.9%	5.9%	6.9%	2.1%	908
San Andrés	19.9%	65.2%	6.1%	8.0%	0.7%	423
Santa Marta	18.9%	69.2%	4.8%	5.2%	1.9%	4318
Santander	14.8%	76.1%	3.6%	4.7%	0.8%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	19.5%	68.3%	5.4%	5.2%	1.5%	2439
Soacha	14.7%	79.1%	2.5%	2.9%	0.8%	4203
Sogamoso	11.8%	83.9%	2.0%	1.8%	0.5%	1026
Soledad	20.5%	69.9%	4.2%	3.8%	1.6%	4027
Sucre	21.5%	56.8%	10.4%	8.6%	2.7%	6165
Tolima	18.5%	68.3%	5.3%	6.2%	1.6%	7271
Tuluá	16.4%	75.8%	2.7%	4.0%	1.1%	1652
Tumaco	18.4%	54.3%	12.0%	9.4%	5.9%	1940
Tunja	10.1%	85.7%	1.9%	1.6%	0.6%	1489
Turbo	18.7%	60.3%	9.9%	8.0%	3.1%	1827
Uribia	16.2%	50.0%	16.0%	10.9%	6.9%	1677
Valle del Cauca	17.9%	71.0%	4.8%	5.3%	1.1%	6692
Valledupar	16.9%	71.1%	4.7%	5.6%	1.7%	3944
Vichada	17.3%	61.5%	10.0%	8.0%	3.2%	803
Villavicencio	15.2%	77.8%	2.8%	2.8%	1.5%	4440
Yopal	17.9%	75.2%	3.0%	2.9%	1.0%	1576
Yumbo	14.2%	75.4%	4.3%	4.7%	1.3%	971
Zipaquirá	10.9%	84.2%	1.1%	2.7%	1.1%	994
Colombia	15.8%	72.5%	5.0%	5.0%	1.7%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 30.

Observa algunos datos acerca de los niños y niñas de un grupo.

¿Qué ***NO*** tienen en común Sandra y Natalia?

A. Que son niñas.
B. Su edad.
C. Su color favorito.
D. Su animal favorito.

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	16.1%	16.3%	19.9%	43.5%	4.1%	747
Antioquia	11.3%	11.3%	13.7%	61.1%	2.6%	23293
Apartadó	13.9%	12.8%	14.8%	55.9%	2.6%	1416
Arauca	12.2%	11.6%	14.3%	60.5%	1.4%	2220
Armenia	7.4%	9.4%	10.5%	70.8%	1.9%	1807
Atlántico	13.3%	14.1%	15.0%	53.8%	3.8%	4408
Barrancabermeja	8.9%	9.2%	11.7%	68.9%	1.3%	1981
Barranquilla	9.9%	10.6%	12.6%	64.6%	2.2%	8932
Bello	7.0%	8.3%	10.3%	72.1%	2.3%	3125
Bogotá, D.C.	5.4%	7.0%	8.7%	77.2%	1.7%	49170
Bolívar	16.9%	15.0%	17.6%	46.3%	4.2%	8729
Boyacá	10.3%	11.5%	14.4%	62.7%	1.2%	6308
Bucaramanga	5.9%	7.7%	9.3%	75.6%	1.5%	3875
Buenaventura	12.9%	12.4%	14.1%	58.1%	2.5%	3798
Buga	7.8%	9.8%	10.5%	70.7%	1.3%	953
Caldas	9.9%	10.8%	13.2%	64.7%	1.5%	4142
Cali	7.9%	8.8%	10.3%	71.3%	1.7%	15522
Caquetá	13.6%	13.5%	14.3%	57.1%	1.4%	2537
Cartagena	11.4%	11.3%	12.8%	62.0%	2.5%	8481
Cartago	7.8%	9.1%	11.9%	70.4%	0.8%	985
Casanare	12.5%	12.2%	14.8%	58.7%	1.8%	2442
Cauca	11.6%	12.2%	15.0%	58.2%	2.9%	10047
Cesar	13.4%	13.9%	15.3%	55.7%	1.8%	6848
Chocó	15.7%	15.4%	15.7%	50.2%	3.0%	3674
Chía	5.5%	6.1%	9.9%	77.6%	0.9%	1018
Ciénaga	12.7%	12.0%	15.8%	56.2%	3.2%	1122
Cundinamarca	8.3%	8.6%	11.1%	70.6%	1.4%	11983
Córdoba	14.6%	14.0%	17.5%	50.9%	3.0%	10669
Cúcuta	9.3%	8.9%	12.9%	67.9%	1.0%	5717
Dosquebradas	7.2%	8.9%	10.8%	71.8%	1.4%	1396
Duitama	3.9%	6.4%	8.4%	80.5%	0.8%	994
Envigado	3.9%	5.0%	6.1%	83.2%	1.8%	1149
Facatativá	6.3%	7.6%	8.9%	75.7%	1.6%	1016
Florencia	12.9%	14.0%	16.3%	54.7%	2.1%	1579
Floridablanca	4.7%	6.0%	8.3%	80.0%	1.0%	1817
Fusagasugá	6.8%	7.0%	11.6%	72.9%	1.8%	899
Girardot	8.6%	14.9%	13.3%	62.2%	1.0%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	8.4%	9.3%	14.0%	67.5%	0.8%	1086
Guainía	18.5%	14.6%	19.0%	43.0%	4.9%	453
Guaviare	12.3%	13.1%	18.7%	53.4%	2.5%	726
Huila	12.0%	11.9%	15.3%	59.3%	1.5%	6272
Ibagué	7.8%	8.8%	10.6%	71.5%	1.2%	4048
Ipiales	7.1%	8.8%	12.4%	71.0%	0.6%	1122
Itagüí	7.0%	9.2%	8.3%	74.2%	1.3%	1490
Jamundí	11.3%	10.6%	14.1%	61.6%	2.4%	870
La Guajira	14.1%	13.8%	15.2%	52.9%	4.1%	3523
Lorica	13.0%	13.6%	13.9%	58.3%	1.2%	1091
Magangué	15.3%	15.9%	18.7%	46.3%	3.9%	1324
Magdalena	14.4%	13.2%	15.0%	53.0%	4.3%	7423
Maicao	15.2%	15.1%	16.4%	50.3%	3.0%	1712
Malambo	12.1%	14.3%	13.4%	58.2%	2.0%	933
Manizales	6.0%	8.1%	10.7%	74.0%	1.2%	2198
Medellín	8.7%	9.3%	10.9%	68.7%	2.4%	15603
Meta	13.0%	11.1%	14.5%	59.2%	2.2%	4237
Montería	13.7%	12.5%	16.0%	55.9%	1.9%	4136
Mosquera	4.4%	8.2%	7.9%	77.9%	1.5%	997
Nariño	11.0%	11.6%	12.7%	61.2%	3.5%	6999
Neiva	10.0%	10.0%	14.4%	64.5%	1.0%	2702
Norte de Santander	10.1%	10.3%	12.7%	65.3%	1.6%	6361
Palmira	7.6%	8.6%	9.6%	73.0%	1.2%	2342
Pasto	6.8%	9.9%	12.8%	69.2%	1.3%	2847
Pereira	8.1%	8.8%	11.4%	69.7%	2.0%	3341
Piedecuesta	7.0%	7.8%	9.4%	73.9%	1.9%	1148
Pitalito	10.6%	12.9%	11.9%	62.9%	1.6%	1232
Popayán	7.7%	8.9%	11.0%	71.1%	1.3%	2287
Putumayo	14.0%	13.8%	16.6%	53.6%	2.0%	3100
Quibdó	13.2%	13.2%	15.6%	54.2%	3.8%	1106
Quindío	11.0%	11.3%	14.4%	61.5%	1.8%	1713
Riohacha	13.4%	12.9%	14.0%	56.4%	3.3%	2171
Rionegro	7.8%	6.0%	8.8%	76.0%	1.4%	833
Risaralda	11.1%	11.0%	11.8%	63.4%	2.7%	1923
Sabaneta	6.1%	3.2%	9.6%	79.3%	1.9%	376
Sahagún	12.7%	12.2%	13.7%	59.4%	2.1%	908
San Andrés	15.6%	12.1%	15.8%	55.1%	1.4%	423
Santa Marta	11.3%	11.4%	12.4%	62.2%	2.7%	4318
Santander	9.3%	9.8%	13.5%	66.2%	1.2%	6310

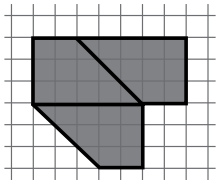
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.9%	10.8%	12.9%	64.0%	2.3%	2439
Soacha	6.6%	8.4%	10.5%	73.4%	1.2%	4203
Sogamoso	5.6%	8.8%	8.3%	76.3%	1.1%	1026
Soledad	11.1%	10.6%	11.7%	64.8%	1.8%	4027
Sucre	15.8%	14.2%	18.2%	48.5%	3.2%	6165
Tolima	11.2%	12.7%	15.0%	59.1%	2.0%	7271
Tuluá	8.1%	9.4%	13.2%	68.2%	1.1%	1652
Tumaco	14.1%	15.9%	18.0%	44.8%	7.2%	1940
Tunja	4.6%	6.6%	8.9%	78.8%	1.0%	1489
Turbo	16.6%	14.4%	13.7%	51.7%	3.6%	1827
Uribia	16.2%	18.4%	14.7%	43.5%	7.2%	1677
Valle del Cauca	10.5%	10.9%	13.4%	63.3%	1.9%	6692
Valledupar	10.5%	10.6%	14.0%	62.5%	2.4%	3944
Vichada	20.8%	15.7%	16.4%	42.6%	4.5%	803
Villavicencio	8.2%	8.9%	10.9%	70.5%	1.5%	4440
Yopal	9.1%	10.2%	11.2%	68.3%	1.2%	1576
Yumbo	9.2%	10.3%	11.8%	67.7%	1.0%	971
Zipaquirá	6.1%	8.5%	9.4%	75.1%	1.0%	994
Colombia	10.1%	10.6%	12.7%	64.4%	2.2%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

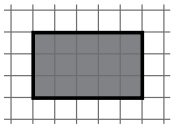
• Pregunta 31.

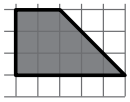
Catalina armó la siguiente figura usando 3 piezas iguales. Observa.

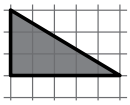


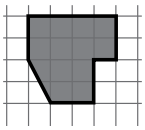
Figura

¿Qué forma tienen las piezas usadas por Catalina para armar la figura?

A. 

B. 

C. 

D. 

• Estructura

Competencia	Resolución
Componente	Geométrico - métrico
Afirmación	Estimar medidas con patrones arbitrarios.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.1%	43.5%	11.4%	29.3%	4.7%	747
Antioquia	6.5%	57.9%	6.6%	26.5%	2.6%	23293
Apartadó	7.6%	56.8%	6.6%	26.1%	3.0%	1416
Arauca	5.4%	60.8%	6.1%	26.4%	1.4%	2220
Armenia	3.9%	67.2%	5.4%	22.2%	1.3%	1807
Atlántico	6.6%	54.5%	7.9%	27.3%	3.7%	4408
Barrancabermeja	4.9%	62.3%	5.5%	25.8%	1.4%	1981
Barranquilla	5.7%	61.2%	6.4%	24.8%	1.9%	8932
Bello	4.6%	64.3%	4.2%	24.9%	2.0%	3125
Bogotá, D.C.	3.1%	67.3%	4.2%	23.8%	1.7%	49170
Bolívar	10.3%	47.1%	11.5%	26.4%	4.7%	8729
Boyacá	5.8%	62.0%	5.8%	25.5%	0.9%	6308
Bucaramanga	3.2%	69.5%	3.6%	22.3%	1.4%	3875
Buenaventura	8.8%	54.5%	8.3%	25.7%	2.6%	3798
Buga	3.5%	62.6%	5.6%	27.1%	1.3%	953
Caldas	5.4%	61.6%	6.0%	25.8%	1.2%	4142
Cali	4.6%	61.4%	5.7%	26.6%	1.6%	15522
Caquetá	9.6%	55.3%	7.8%	25.5%	1.8%	2537
Cartagena	6.4%	57.9%	6.9%	26.1%	2.8%	8481
Cartago	4.4%	62.8%	6.0%	26.0%	0.8%	985
Casanare	5.7%	61.5%	5.6%	25.8%	1.5%	2442
Cauca	8.3%	55.5%	7.4%	25.8%	3.1%	10047
Cesar	9.0%	54.6%	7.8%	27.0%	1.6%	6848
Chocó	11.3%	46.9%	10.6%	28.0%	3.3%	3674
Chía	3.0%	71.3%	2.9%	22.4%	0.3%	1018
Ciénaga	8.9%	54.0%	9.0%	25.1%	2.9%	1122
Cundinamarca	3.9%	64.9%	4.5%	25.6%	1.1%	11983
Córdoba	9.6%	49.7%	9.3%	28.5%	2.9%	10669
Cúcuta	4.3%	65.0%	5.3%	24.4%	0.9%	5717
Dosquebradas	4.5%	65.0%	5.3%	24.1%	1.1%	1396
Duitama	2.3%	68.9%	4.2%	23.9%	0.6%	994
Envigado	2.9%	67.7%	3.8%	23.4%	2.2%	1149
Facatativá	1.7%	68.0%	4.1%	24.7%	1.5%	1016
Florencia	5.6%	56.7%	7.8%	27.5%	2.4%	1579
Floridablanca	2.4%	67.7%	3.4%	25.5%	1.0%	1817
Fusagasugá	4.8%	63.5%	5.2%	25.0%	1.4%	899
Girardot	5.6%	58.7%	7.6%	27.0%	1.1%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	5.1%	66.7%	5.8%	21.7%	0.7%	1086
Guainía	11.7%	46.6%	8.4%	27.6%	5.7%	453
Guaviare	8.3%	56.6%	6.2%	26.4%	2.5%	726
Huila	6.3%	59.5%	6.6%	26.1%	1.5%	6272
Ibagué	3.9%	63.5%	4.9%	26.4%	1.4%	4048
Ipiales	3.8%	62.5%	5.5%	27.4%	0.8%	1122
Itagüí	4.4%	65.3%	6.2%	22.8%	1.3%	1490
Jamundí	5.3%	59.9%	7.0%	26.3%	1.5%	870
La Guajira	10.1%	48.9%	9.4%	27.6%	4.0%	3523
Lorica	7.6%	54.8%	8.1%	27.9%	1.6%	1091
Magangué	11.0%	47.7%	11.1%	25.8%	4.5%	1324
Magdalena	9.6%	51.0%	9.3%	25.6%	4.6%	7423
Maicao	10.5%	49.0%	9.5%	28.6%	2.5%	1712
Malambo	8.5%	55.4%	5.7%	27.7%	2.8%	933
Manizales	3.9%	67.0%	4.4%	23.4%	1.3%	2198
Medellín	4.5%	62.6%	5.9%	24.6%	2.4%	15603
Meta	6.4%	58.9%	6.4%	26.3%	2.0%	4237
Montería	8.5%	55.5%	7.6%	26.0%	2.4%	4136
Mosquera	3.1%	69.4%	3.1%	23.5%	0.9%	997
Nariño	7.0%	55.3%	6.5%	27.9%	3.4%	6999
Neiva	6.0%	59.8%	6.3%	26.6%	1.2%	2702
Norte de Santander	5.2%	61.8%	5.1%	26.4%	1.5%	6361
Palmira	3.7%	65.2%	5.2%	24.4%	1.5%	2342
Pasto	3.3%	63.2%	4.8%	27.3%	1.4%	2847
Pereira	3.9%	66.3%	4.7%	23.2%	2.0%	3341
Piedecuesta	3.3%	67.2%	4.4%	23.3%	1.9%	1148
Pitalito	6.1%	61.7%	4.5%	26.8%	0.9%	1232
Popayán	4.1%	64.0%	4.7%	25.9%	1.3%	2287
Putumayo	7.6%	57.5%	7.0%	26.0%	1.9%	3100
Quibdó	9.9%	49.2%	9.4%	27.6%	3.9%	1106
Quindío	5.5%	61.6%	6.1%	24.8%	2.0%	1713
Riohacha	8.1%	53.9%	9.4%	25.7%	3.0%	2171
Rionegro	3.1%	69.0%	4.2%	22.4%	1.2%	833
Risaralda	5.8%	60.6%	6.4%	24.2%	2.9%	1923
Sabaneta	2.9%	74.5%	4.5%	16.8%	1.3%	376
Sahagún	6.8%	55.9%	7.9%	26.4%	2.9%	908
San Andrés	8.3%	57.7%	7.1%	25.3%	1.7%	423
Santa Marta	6.1%	58.4%	6.8%	26.1%	2.6%	4318
Santander	4.6%	67.0%	4.7%	22.8%	1.0%	6310

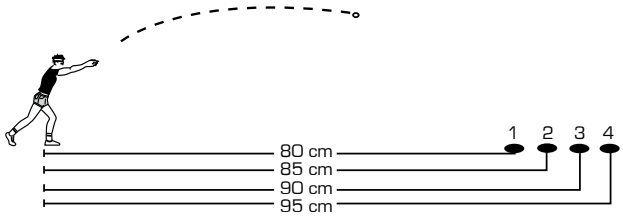
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	6.1%	60.1%	6.3%	25.2%	2.4%	2439
Soacha	3.9%	65.5%	5.2%	24.5%	0.9%	4203
Sogamoso	3.7%	66.6%	5.7%	23.3%	0.8%	1026
Soledad	5.0%	62.6%	5.4%	25.1%	1.9%	4027
Sucre	10.0%	49.3%	10.1%	27.5%	3.2%	6165
Tolima	6.3%	58.3%	6.9%	26.5%	2.0%	7271
Tuluá	4.3%	62.0%	5.4%	27.1%	1.2%	1652
Tumaco	11.6%	42.3%	11.8%	26.5%	7.7%	1940
Tunja	3.3%	68.7%	3.8%	23.4%	0.9%	1489
Turbo	9.8%	48.7%	12.2%	25.2%	4.2%	1827
Uribia	15.6%	33.6%	14.7%	27.8%	8.4%	1677
Valle del Cauca	5.8%	60.9%	6.0%	25.6%	1.7%	6692
Valledupar	5.8%	58.1%	7.0%	26.8%	2.4%	3944
Vichada	13.6%	42.1%	11.7%	28.5%	4.1%	803
Villavicencio	3.8%	65.0%	3.9%	25.7%	1.6%	4440
Yopal	4.0%	67.0%	5.4%	22.0%	1.6%	1576
Yumbo	5.9%	63.4%	6.6%	22.8%	1.3%	971
Zipaquirá	2.8%	71.2%	3.8%	20.8%	1.3%	994
Colombia	5.9%	60.0%	6.4%	25.6%	2.2%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 32.

Juan lanza una moneda y quiere que caiga dentro de uno de los 4 huecos. Observa la distancia que hay entre Juan y cada hueco.



Juan lanza una moneda y ésta cae en el hueco que se encuentra a 90 cm de él. ¿En cuál hueco cayó la moneda?

A. En el 1
B. En el 2
C. En el 3
D. En el 4

• Estructura

Competencia	Comunicación
Componente	Geométrico - métrico
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	30.8%	11.8%	43.0%	10.3%	4.1%	747
Antioquia	24.5%	11.0%	55.3%	7.0%	2.1%	23293
Apartadó	24.7%	12.4%	52.9%	7.7%	2.3%	1416
Arauca	23.6%	11.4%	57.3%	6.7%	1.0%	2220
Armenia	21.6%	11.1%	60.2%	5.9%	1.2%	1807
Atlántico	26.0%	13.3%	49.5%	8.2%	3.1%	4408
Barrancabermeja	21.8%	10.5%	61.2%	5.8%	0.8%	1981
Barranquilla	23.5%	11.6%	57.0%	6.6%	1.3%	8932
Bello	22.5%	10.0%	60.3%	5.5%	1.7%	3125
Bogotá, D.C.	18.9%	8.9%	66.2%	4.7%	1.4%	49170
Bolívar	29.5%	12.7%	42.1%	12.4%	3.3%	8729
Boyacá	23.7%	9.5%	59.3%	6.8%	0.8%	6308
Bucaramanga	19.2%	9.3%	65.5%	4.7%	1.3%	3875
Buenaventura	25.7%	10.4%	52.8%	9.0%	2.1%	3798
Buga	24.6%	11.6%	58.7%	4.1%	1.0%	953
Caldas	25.1%	11.3%	56.7%	6.2%	0.8%	4142
Cali	23.0%	10.5%	59.6%	5.8%	1.2%	15522
Caquetá	26.8%	10.7%	53.6%	7.6%	1.4%	2537
Cartagena	24.8%	11.0%	54.5%	7.5%	2.1%	8481
Cartago	20.5%	11.9%	59.6%	7.3%	0.7%	985
Casanare	24.3%	11.8%	55.8%	6.9%	1.2%	2442
Cauca	23.5%	10.0%	56.4%	7.8%	2.3%	10047
Cesar	24.3%	12.3%	53.6%	8.6%	1.1%	6848
Chocó	25.1%	10.1%	49.7%	12.4%	2.7%	3674
Chía	17.9%	7.3%	69.6%	4.4%	0.8%	1018
Ciénaga	24.9%	11.9%	50.4%	11.0%	1.9%	1122
Cundinamarca	20.4%	9.5%	64.1%	5.0%	1.1%	11983
Córdoba	28.0%	11.8%	47.1%	10.6%	2.5%	10669
Cúcuta	21.9%	11.5%	60.3%	5.5%	0.8%	5717
Dosquebradas	23.3%	10.7%	59.0%	5.9%	1.1%	1396
Duitama	15.9%	8.4%	70.7%	4.7%	0.3%	994
Envigado	11.5%	8.8%	74.0%	3.7%	2.0%	1149
Facatativá	17.4%	8.8%	67.5%	5.2%	1.1%	1016
Florencia	25.4%	11.8%	55.1%	6.0%	1.7%	1579
Floridablanca	18.8%	8.9%	67.4%	4.0%	0.9%	1817
Fusagasugá	20.5%	10.5%	62.7%	5.0%	1.3%	899
Girardot	23.5%	11.2%	56.7%	7.9%	0.7%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	25.0%	11.7%	55.3%	7.3%	0.7%	1086
Guainía	25.2%	12.4%	44.4%	12.8%	5.3%	453
Guaviare	25.8%	14.5%	52.3%	5.6%	1.8%	726
Huila	26.4%	11.7%	54.6%	6.3%	1.0%	6272
Ibagué	19.0%	9.1%	66.1%	4.8%	1.0%	4048
Ipiales	23.4%	7.5%	61.7%	6.8%	0.7%	1122
Itagüí	20.3%	10.1%	63.4%	5.2%	0.9%	1490
Jamundí	29.0%	11.5%	51.5%	6.6%	1.5%	870
La Guajira	26.1%	10.7%	48.5%	11.3%	3.4%	3523
Lorica	27.3%	10.6%	52.2%	9.1%	0.7%	1091
Magangué	30.1%	13.7%	41.0%	11.6%	3.5%	1324
Magdalena	25.7%	11.4%	48.9%	11.0%	3.0%	7423
Maicao	27.5%	10.1%	48.0%	12.5%	2.0%	1712
Malambo	21.9%	12.6%	54.4%	9.2%	1.8%	933
Manizales	20.7%	11.0%	62.6%	4.9%	0.8%	2198
Medellín	22.8%	10.9%	58.6%	5.7%	1.9%	15603
Meta	24.7%	11.5%	55.3%	6.7%	1.8%	4237
Montería	27.0%	11.4%	51.0%	9.2%	1.4%	4136
Mosquera	18.4%	9.1%	67.8%	4.2%	0.5%	997
Nariño	23.7%	9.5%	57.2%	6.8%	2.7%	6999
Neiva	24.8%	11.3%	57.0%	5.9%	1.0%	2702
Norte de Santander	22.0%	10.4%	60.4%	6.1%	1.1%	6361
Palmira	21.0%	10.8%	62.5%	4.8%	0.9%	2342
Pasto	24.1%	10.2%	59.5%	5.4%	0.8%	2847
Pereira	23.2%	9.7%	60.7%	5.2%	1.2%	3341
Piedecuesta	18.4%	8.9%	67.9%	3.7%	1.1%	1148
Pitalito	26.1%	11.7%	55.0%	6.5%	0.7%	1232
Popayán	21.3%	9.4%	63.1%	5.0%	1.1%	2287
Putumayo	26.7%	11.2%	53.6%	6.8%	1.7%	3100
Quibdó	29.7%	11.3%	47.5%	9.0%	2.6%	1106
Quindío	27.3%	10.4%	55.3%	5.4%	1.5%	1713
Riohacha	25.4%	12.4%	50.9%	9.5%	1.8%	2171
Rionegro	22.1%	9.8%	61.9%	5.0%	1.1%	833
Risaralda	24.1%	11.0%	56.8%	6.0%	2.1%	1923
Sabaneta	14.6%	8.8%	71.0%	4.3%	1.3%	376
Sahagún	23.6%	10.1%	54.7%	9.3%	2.3%	908
San Andrés	26.0%	13.0%	51.3%	8.5%	1.2%	423
Santa Marta	25.5%	10.7%	54.2%	7.5%	2.2%	4318
Santander	21.6%	10.5%	61.5%	5.6%	0.8%	6310

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	24.6%	9.3%	54.9%	9.4%	1.6%	2439
Soacha	21.8%	9.6%	62.3%	5.3%	1.0%	4203
Sogamoso	24.5%	10.0%	58.8%	5.9%	0.8%	1026
Soledad	22.0%	11.8%	57.7%	7.2%	1.4%	4027
Sucre	28.6%	12.7%	45.5%	11.1%	2.1%	6165
Tolima	25.2%	11.8%	54.4%	7.2%	1.4%	7271
Tuluá	20.0%	11.0%	61.6%	6.1%	1.3%	1652
Tumaco	32.3%	12.5%	39.5%	10.1%	5.6%	1940
Tunja	19.3%	8.1%	67.2%	4.3%	1.0%	1489
Turbo	29.7%	13.4%	44.0%	10.0%	3.0%	1827
Uribia	29.0%	11.7%	35.0%	17.0%	7.2%	1677
Valle del Cauca	24.2%	10.8%	57.0%	6.6%	1.3%	6692
Valledupar	22.8%	11.3%	57.3%	6.7%	1.9%	3944
Vichada	27.0%	10.2%	44.6%	14.9%	3.2%	803
Villavicencio	19.4%	10.8%	62.9%	5.6%	1.3%	4440
Yopal	21.5%	9.7%	62.2%	5.6%	1.0%	1576
Yumbo	23.6%	11.5%	57.9%	6.2%	0.8%	971
Zipaquirá	20.8%	9.6%	64.5%	4.3%	0.8%	994
Colombia	23.3%	10.6%	57.5%	6.9%	1.7%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 33.**

Tomás debe escoger una de cuatro rutas posibles para ir de su casa al parque.

La ruta 2 es más corta que la 1.
La ruta 2 es más corta que la 3.
La ruta 4 es igual de larga que la 1.

¿Cuál es la ruta más corta que puede escoger Tomás?

A. La 1.
B. La 2.
C. La 3.
D. La 4.

- **Estructura**

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver situaciones que requieren estimar grados de posibilidad de ocurrencia de eventos.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	32.8%	34.4%	13.3%	14.9%	4.7%	747
Antioquia	31.6%	47.8%	7.8%	10.6%	2.2%	23293
Apartadó	31.4%	47.6%	7.8%	10.4%	2.8%	1416
Arauca	32.0%	48.3%	7.0%	11.9%	0.7%	2220
Armenia	29.6%	52.1%	5.9%	11.1%	1.3%	1807
Atlántico	30.9%	44.1%	8.9%	12.6%	3.5%	4408
Barrancabermeja	31.2%	53.8%	5.6%	8.2%	1.2%	1981
Barranquilla	29.2%	51.7%	7.4%	9.9%	1.7%	8932
Bello	30.2%	55.2%	6.3%	6.6%	1.7%	3125
Bogotá, D.C.	28.3%	56.3%	5.8%	8.1%	1.6%	49170
Bolívar	30.7%	39.1%	11.0%	15.4%	3.8%	8729
Boyacá	34.6%	45.5%	7.6%	11.4%	1.0%	6308
Bucaramanga	27.5%	58.0%	6.0%	7.4%	1.2%	3875
Buenaventura	31.7%	45.1%	8.6%	12.3%	2.4%	3798
Buga	31.8%	53.2%	7.0%	6.9%	1.0%	953
Caldas	34.0%	46.6%	7.8%	10.5%	1.2%	4142
Cali	30.4%	54.1%	6.3%	8.0%	1.3%	15522
Caquetá	33.4%	41.9%	8.7%	14.7%	1.3%	2537
Cartagena	29.2%	49.6%	8.5%	10.3%	2.5%	8481
Cartago	29.8%	55.5%	6.3%	7.5%	0.8%	985
Casanare	36.5%	43.0%	7.2%	11.8%	1.5%	2442
Cauca	32.2%	44.1%	8.6%	12.7%	2.5%	10047
Cesar	32.1%	45.9%	7.9%	12.6%	1.5%	6848
Chocó	27.4%	41.0%	12.5%	16.3%	2.8%	3674
Chía	25.0%	62.2%	4.8%	7.2%	0.8%	1018
Ciénaga	29.9%	47.6%	10.7%	9.8%	2.0%	1122
Cundinamarca	31.8%	50.8%	6.4%	9.7%	1.3%	11983
Córdoba	31.8%	40.2%	10.7%	14.8%	2.6%	10669
Cúcuta	27.9%	56.7%	6.5%	7.8%	1.1%	5717
Dosquebradas	31.6%	52.4%	6.7%	8.2%	1.1%	1396
Duitama	26.8%	60.1%	5.2%	7.8%	0.1%	994
Envigado	21.9%	66.0%	4.3%	6.1%	1.7%	1149
Facatativá	34.2%	50.5%	5.6%	8.3%	1.5%	1016
Florencia	37.9%	40.5%	6.4%	13.2%	2.0%	1579
Floridablanca	24.0%	63.0%	4.6%	7.5%	0.9%	1817
Fusagasugá	31.1%	52.6%	6.6%	8.1%	1.6%	899
Girardot	33.1%	48.7%	5.3%	11.1%	1.7%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	30.0%	54.1%	7.5%	7.7%	0.7%	1086
Guainía	28.7%	34.7%	12.4%	19.0%	5.3%	453
Guaviare	31.5%	44.1%	8.1%	13.6%	2.6%	726
Huila	34.9%	43.7%	8.0%	12.1%	1.2%	6272
Ibagué	28.3%	55.7%	6.0%	8.8%	1.2%	4048
Ipiales	34.0%	50.7%	6.6%	8.1%	0.6%	1122
Itagüí	30.3%	56.2%	6.4%	5.7%	1.3%	1490
Jamundí	32.2%	50.1%	7.1%	8.6%	2.0%	870
La Guajira	26.3%	46.0%	10.8%	13.5%	3.4%	3523
Lorica	30.5%	45.0%	11.2%	12.3%	1.0%	1091
Magangué	31.0%	38.4%	12.7%	14.7%	3.2%	1324
Magdalena	29.9%	42.7%	10.8%	13.0%	3.6%	7423
Maicao	29.4%	43.8%	9.0%	15.0%	2.7%	1712
Malambo	26.9%	52.2%	7.8%	11.4%	1.7%	933
Manizales	30.2%	55.6%	6.6%	6.5%	1.1%	2198
Medellín	29.7%	53.7%	6.3%	8.1%	2.2%	15603
Meta	36.5%	43.0%	8.2%	10.5%	1.9%	4237
Montería	30.6%	45.8%	8.7%	13.1%	1.7%	4136
Mosquera	31.1%	54.0%	4.4%	9.5%	1.0%	997
Nariño	33.1%	45.5%	7.2%	11.1%	3.1%	6999
Neiva	34.1%	48.0%	6.6%	10.0%	1.2%	2702
Norte de Santander	31.6%	49.9%	6.9%	10.2%	1.3%	6361
Palmira	31.1%	54.7%	5.0%	7.6%	1.6%	2342
Pasto	34.0%	49.9%	7.2%	7.7%	1.2%	2847
Pereira	28.4%	54.7%	6.7%	8.8%	1.4%	3341
Piedecuesta	27.7%	56.4%	6.3%	8.4%	1.2%	1148
Pitalito	33.7%	47.9%	7.3%	9.8%	1.3%	1232
Popayán	32.7%	50.5%	6.3%	9.2%	1.3%	2287
Putumayo	36.6%	41.4%	8.7%	11.6%	1.7%	3100
Quibdó	32.5%	40.0%	11.0%	13.5%	3.1%	1106
Quindío	33.0%	48.2%	7.5%	9.5%	1.8%	1713
Riohacha	31.3%	44.0%	9.9%	11.7%	3.0%	2171
Rionegro	27.7%	58.8%	5.0%	7.3%	1.1%	833
Risaralda	32.2%	48.3%	7.1%	10.0%	2.4%	1923
Sabaneta	24.7%	63.3%	4.3%	6.1%	1.6%	376
Sahagún	32.5%	44.4%	8.6%	12.4%	2.1%	908
San Andrés	36.4%	44.2%	6.4%	11.1%	1.9%	423
Santa Marta	29.2%	51.6%	7.5%	9.9%	1.9%	4318
Santander	30.7%	51.2%	7.0%	10.3%	0.8%	6310

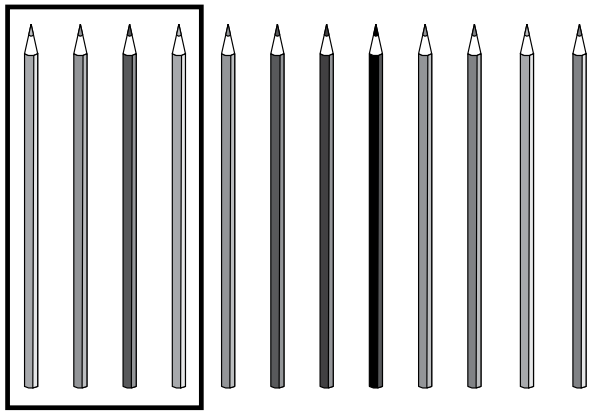
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	29.4%	50.8%	7.6%	10.6%	1.6%	2439
Soacha	32.0%	51.7%	6.4%	8.8%	1.1%	4203
Sogamoso	31.2%	50.5%	7.5%	10.1%	0.7%	1026
Soledad	28.4%	52.9%	7.6%	9.5%	1.6%	4027
Sucre	32.3%	39.6%	10.3%	15.4%	2.3%	6165
Tolima	33.2%	44.5%	8.4%	12.3%	1.7%	7271
Tuluá	33.1%	50.8%	6.8%	8.2%	1.2%	1652
Tumaco	28.6%	37.7%	13.2%	14.5%	6.0%	1940
Tunja	28.4%	56.7%	5.6%	8.0%	1.3%	1489
Turbo	31.8%	42.6%	10.0%	12.6%	3.0%	1827
Uribia	23.6%	36.4%	14.8%	18.2%	7.0%	1677
Valle del Cauca	32.9%	48.1%	7.5%	10.0%	1.4%	6692
Valledupar	30.2%	53.1%	5.8%	9.1%	1.8%	3944
Vichada	34.1%	35.4%	10.3%	16.2%	4.0%	803
Villavicencio	31.1%	52.9%	5.6%	9.0%	1.5%	4440
Yopal	35.2%	47.3%	6.8%	9.6%	1.1%	1576
Yumbo	34.4%	49.0%	6.5%	9.3%	0.8%	971
Zipaquirá	28.5%	55.3%	5.3%	9.8%	1.1%	994
Colombia	30.8%	49.4%	7.5%	10.4%	1.9%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 34.**

Manuel utilizó los colores señalados dentro del rectángulo.



La fracción que representa los colores que utilizó Manuel es

A. $\frac{1}{12}$

B. $\frac{1}{8}$

C. $\frac{4}{12}$

D. $\frac{4}{8}$

- **Estructura**

Competencia	Comunicación
Componente	Numérico - variacional
Afirmación	Usar fracciones comunes para describir situaciones continuas y discretas.
Nivel de desempeño	Avanzado
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	9.2%	10.2%	44.2%	31.6%	4.8%	747
Antioquia	8.0%	6.9%	52.2%	30.4%	2.4%	23293
Apartadó	8.5%	7.4%	48.8%	32.6%	2.7%	1416
Arauca	7.0%	5.8%	53.9%	32.3%	1.0%	2220
Armenia	8.0%	5.8%	58.1%	26.7%	1.5%	1807
Atlántico	7.8%	6.4%	54.6%	27.1%	4.1%	4408
Barrancabermeja	6.9%	4.7%	60.7%	26.6%	1.1%	1981
Barranquilla	6.8%	6.1%	58.1%	27.0%	2.0%	8932
Bello	7.6%	5.6%	55.0%	29.8%	2.0%	3125
Bogotá, D.C.	5.6%	5.3%	60.1%	27.3%	1.7%	49170
Bolívar	11.5%	9.6%	45.0%	29.8%	4.1%	8729
Boyacá	6.3%	7.2%	57.5%	27.8%	1.2%	6308
Bucaramanga	5.3%	3.8%	66.8%	22.4%	1.7%	3875
Buenaventura	8.0%	8.1%	53.3%	27.6%	2.9%	3798
Buga	7.8%	6.3%	57.7%	26.9%	1.4%	953
Caldas	7.7%	6.7%	53.5%	30.8%	1.3%	4142
Cali	7.8%	5.6%	53.2%	31.8%	1.6%	15522
Caquetá	8.8%	7.7%	54.5%	27.6%	1.5%	2537
Cartagena	9.1%	6.5%	55.4%	26.8%	2.3%	8481
Cartago	6.7%	6.0%	56.0%	29.9%	1.3%	985
Casanare	8.5%	7.1%	53.8%	29.1%	1.5%	2442
Cauca	7.3%	7.6%	53.5%	28.7%	2.8%	10047
Cesar	9.6%	7.5%	51.0%	30.3%	1.6%	6848
Chocó	10.6%	10.0%	45.9%	30.6%	3.0%	3674
Chía	5.0%	5.8%	60.7%	28.0%	0.5%	1018
Ciénaga	8.6%	8.7%	55.6%	24.5%	2.6%	1122
Cundinamarca	5.8%	4.7%	60.4%	27.8%	1.3%	11983
Córdoba	10.1%	9.2%	46.7%	31.1%	2.9%	10669
Cúcuta	6.5%	5.1%	61.1%	26.4%	0.9%	5717
Dosquebradas	8.9%	5.7%	57.2%	27.1%	1.1%	1396
Duitama	3.7%	3.0%	76.9%	15.6%	0.8%	994
Envigado	4.9%	3.1%	68.1%	21.8%	2.2%	1149
Facatativá	4.3%	4.2%	59.5%	30.9%	1.0%	1016
Florencia	9.0%	7.3%	51.8%	30.1%	1.7%	1579
Floridablanca	4.0%	3.4%	71.8%	20.1%	0.8%	1817
Fusagasugá	6.2%	3.3%	67.6%	21.4%	1.4%	899
Girardot	9.3%	6.2%	52.9%	30.1%	1.5%	712

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	7.5%	5.6%	57.6%	28.7%	0.6%	1086
Guainía	8.8%	7.7%	47.2%	30.5%	5.7%	453
Guaviare	9.5%	5.6%	52.2%	30.0%	2.6%	726
Huila	7.0%	6.7%	56.3%	28.5%	1.5%	6272
Ibagué	5.9%	4.0%	62.2%	27.0%	1.0%	4048
Ipiales	6.8%	4.4%	61.4%	26.7%	0.7%	1122
Itagüí	8.1%	6.8%	55.1%	28.7%	1.3%	1490
Jamundí	9.3%	7.2%	49.1%	32.8%	1.6%	870
La Guajira	8.9%	9.4%	49.3%	28.5%	3.8%	3523
Lorica	7.8%	7.5%	54.2%	29.2%	1.3%	1091
Magangué	10.7%	10.0%	45.5%	30.0%	3.8%	1324
Magdalena	10.1%	9.4%	48.5%	27.8%	4.2%	7423
Maicao	10.9%	8.3%	46.3%	31.8%	2.7%	1712
Malambo	7.5%	7.1%	61.0%	22.6%	1.8%	933
Manizales	7.1%	4.9%	59.7%	26.9%	1.3%	2198
Medellín	8.3%	6.1%	53.0%	30.3%	2.4%	15603
Meta	7.4%	6.1%	53.7%	30.6%	2.2%	4237
Montería	8.4%	7.4%	52.3%	29.7%	2.3%	4136
Mosquera	6.2%	4.5%	62.7%	25.9%	0.7%	997
Nariño	7.2%	6.4%	54.3%	29.1%	3.0%	6999
Neiva	7.4%	6.8%	56.1%	28.5%	1.3%	2702
Norte de Santander	6.4%	5.5%	58.6%	28.1%	1.4%	6361
Palmira	6.0%	4.6%	58.9%	29.2%	1.4%	2342
Pasto	7.2%	5.1%	58.4%	28.0%	1.3%	2847
Pereira	9.0%	6.3%	55.6%	27.4%	1.7%	3341
Piedecuesta	4.9%	5.1%	61.8%	27.2%	1.0%	1148
Pitalito	7.5%	6.7%	58.3%	26.6%	0.9%	1232
Popayán	5.9%	5.9%	59.1%	28.0%	1.2%	2287
Putumayo	9.2%	7.8%	51.3%	29.7%	2.1%	3100
Quibdó	9.6%	6.6%	49.0%	31.1%	3.7%	1106
Quindío	7.8%	6.3%	57.4%	26.9%	1.6%	1713
Riohacha	8.8%	7.9%	48.6%	31.7%	3.0%	2171
Rionegro	5.4%	4.6%	64.7%	23.9%	1.4%	833
Risaralda	6.9%	6.4%	55.5%	28.7%	2.4%	1923
Sabaneta	4.3%	6.6%	57.7%	29.8%	1.6%	376
Sahagún	8.3%	7.2%	46.5%	35.7%	2.4%	908
San Andrés	11.3%	9.2%	44.7%	32.9%	1.9%	423
Santa Marta	8.4%	6.1%	55.9%	27.5%	2.2%	4318
Santander	6.1%	5.2%	60.4%	27.2%	1.0%	6310

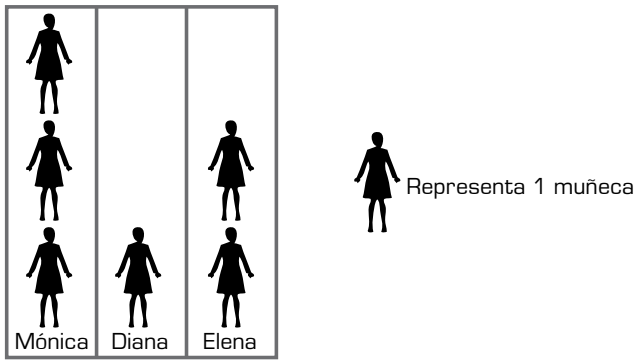
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	9.6%	8.1%	53.9%	26.8%	1.6%	2439
Soacha	6.4%	5.4%	59.1%	27.8%	1.1%	4203
Sogamoso	5.1%	5.2%	64.1%	24.3%	1.4%	1026
Soledad	7.8%	6.2%	56.8%	27.5%	1.7%	4027
Sucre	10.5%	9.8%	47.7%	29.2%	2.8%	6165
Tolima	7.3%	6.9%	53.8%	30.2%	1.9%	7271
Tuluá	7.7%	4.4%	57.7%	29.2%	1.0%	1652
Tumaco	11.0%	10.5%	42.2%	29.3%	7.0%	1940
Tunja	5.2%	4.2%	67.8%	21.3%	1.6%	1489
Turbo	11.0%	10.4%	45.3%	30.5%	2.8%	1827
Uribia	10.0%	13.1%	40.7%	28.8%	7.3%	1677
Valle del Cauca	7.5%	6.5%	52.9%	31.4%	1.7%	6692
Valledupar	9.3%	5.8%	54.2%	28.6%	2.1%	3944
Vichada	7.5%	9.1%	49.4%	29.3%	4.7%	803
Villavicencio	5.7%	4.2%	63.8%	24.8%	1.5%	4440
Yopal	5.8%	7.4%	57.4%	28.2%	1.2%	1576
Yumbo	8.3%	6.3%	52.2%	31.6%	1.5%	971
Zipaquirá	3.8%	3.7%	67.8%	23.3%	1.3%	994
Colombia	7.6%	6.5%	55.3%	28.5%	2.1%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 35.

Observa en la gráfica la cantidad de muñecas que tienen tres niñas.



Gráfica

¿Cuál tabla representa la cantidad de muñecas que tiene cada niña?

A.

Niña	***Cantidad de muñecas***
Mónica	1
Diana	2
Elena	3

B.

Niña	***Cantidad de muñecas***
Mónica	1
Diana	1
Elena	1

C.

Niña	***Cantidad de muñecas***
Mónica	3
Diana	1
Elena	2

D.

Niña	***Cantidad de muñecas***
Mónica	3
Diana	3
Elena	3

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel de Entidad Territorial certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	14.7%	8.8%	56.1%	15.4%	5.0%	747
Antioquia	13.2%	5.4%	70.8%	8.2%	2.5%	23293
Apartadó	12.4%	6.0%	70.1%	8.6%	2.9%	1416
Arauca	10.3%	4.1%	77.0%	7.7%	0.8%	2220
Armenia	8.1%	4.2%	81.2%	5.3%	1.3%	1807
Atlántico	12.1%	5.9%	69.4%	8.4%	4.1%	4408
Barrancabermeja	8.7%	3.0%	81.0%	5.9%	1.5%	1981
Barranquilla	9.2%	4.0%	78.4%	6.5%	1.9%	8932
Bello	7.9%	4.1%	80.6%	5.3%	2.1%	3125
Bogotá, D.C.	6.4%	2.6%	85.3%	4.0%	1.8%	49170
Bolívar	16.4%	8.6%	58.2%	12.4%	4.3%	8729
Boyacá	9.2%	4.6%	78.5%	6.5%	1.2%	6308
Bucaramanga	5.9%	2.7%	86.2%	3.5%	1.6%	3875
Buenaventura	13.0%	5.6%	70.3%	8.5%	2.7%	3798
Buga	8.0%	3.7%	80.2%	6.7%	1.5%	953
Caldas	11.4%	4.8%	75.1%	7.5%	1.2%	4142
Cali	8.4%	3.4%	81.3%	5.2%	1.7%	15522
Caquetá	15.0%	5.4%	68.1%	10.0%	1.5%	2537
Cartagena	11.1%	5.1%	74.5%	6.5%	2.8%	8481
Cartago	10.9%	3.2%	78.8%	6.0%	1.1%	985
Casanare	9.9%	4.8%	76.2%	7.0%	2.1%	2442
Cauca	13.1%	5.0%	69.3%	9.7%	2.9%	10047
Cesar	13.8%	5.9%	68.7%	9.8%	1.8%	6848
Chocó	15.3%	7.9%	62.8%	10.9%	3.1%	3674
Chía	6.3%	2.9%	84.8%	5.2%	0.8%	1018
Ciénaga	12.2%	8.6%	65.7%	11.1%	2.4%	1122
Cundinamarca	7.7%	3.4%	82.5%	5.0%	1.3%	11983
Córdoba	15.2%	7.3%	63.0%	11.5%	3.0%	10669
Cúcuta	7.9%	3.6%	83.0%	4.5%	1.0%	5717
Dosquebradas	10.6%	2.2%	79.6%	5.8%	1.8%	1396
Duitama	4.0%	2.1%	90.5%	3.0%	0.3%	994
Envigado	5.7%	3.8%	86.4%	2.0%	2.1%	1149
Facatativá	5.1%	3.1%	87.1%	3.1%	1.5%	1016
Florencia	12.2%	4.7%	73.3%	7.9%	1.9%	1579
Floridablanca	4.2%	2.1%	89.4%	3.2%	1.0%	1817
Fusagasugá	4.3%	3.1%	87.8%	2.9%	1.9%	899

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ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girardot	8.8%	6.2%	77.9%	4.9%	2.1%	712
Girón	8.9%	4.1%	80.7%	5.5%	0.7%	1086
Guainía	16.1%	6.4%	59.2%	13.2%	5.1%	453
Guaviare	12.5%	5.5%	67.9%	11.3%	2.8%	726
Huila	11.6%	4.9%	73.7%	8.3%	1.6%	6272
Ibagué	7.3%	3.2%	84.3%	4.0%	1.1%	4048
Ipiales	8.2%	2.7%	82.7%	5.6%	0.8%	1122
Itagüí	7.8%	5.2%	81.9%	4.1%	1.1%	1490
Jamundí	10.6%	5.1%	77.5%	5.4%	1.5%	870
La Guajira	14.2%	8.1%	63.5%	10.3%	3.8%	3523
Lorica	14.0%	7.4%	68.7%	8.2%	1.6%	1091
Magangué	18.3%	8.2%	56.7%	12.2%	4.5%	1324
Magdalena	14.7%	7.8%	62.3%	11.3%	4.0%	7423
Maicao	14.1%	8.5%	63.8%	10.9%	2.7%	1712
Malambo	10.3%	4.5%	73.5%	8.7%	3.0%	933
Manizales	7.9%	3.9%	81.5%	5.6%	1.2%	2198
Medellín	10.9%	4.1%	77.1%	5.3%	2.6%	15603
Meta	11.7%	5.2%	73.0%	7.9%	2.2%	4237
Montería	12.6%	6.3%	69.6%	9.4%	2.2%	4136
Mosquera	6.8%	2.6%	86.0%	3.5%	1.1%	997
Nariño	10.9%	4.9%	74.0%	7.4%	2.8%	6999
Neiva	8.5%	3.4%	80.5%	5.8%	1.7%	2702
Norte de Santander	9.1%	3.8%	79.4%	6.4%	1.4%	6361
Palmira	7.0%	2.6%	85.1%	4.1%	1.3%	2342
Pasto	6.9%	3.2%	85.1%	4.0%	0.9%	2847
Pereira	9.5%	3.4%	79.9%	5.6%	1.6%	3341
Piedecuesta	4.8%	2.9%	87.1%	3.7%	1.6%	1148
Pitalito	10.7%	4.5%	76.6%	6.7%	1.5%	1232
Popayán	6.9%	2.5%	83.9%	5.1%	1.6%	2287
Putumayo	12.9%	5.3%	71.0%	8.6%	2.1%	3100
Quibdó	13.2%	5.9%	66.8%	10.4%	3.7%	1106
Quindío	12.0%	3.9%	75.0%	7.1%	2.0%	1713
Riohacha	13.8%	6.4%	67.0%	10.1%	2.6%	2171
Rionegro	8.4%	3.5%	82.5%	4.6%	1.1%	833
Risaralda	11.7%	4.3%	72.0%	8.8%	3.1%	1923
Sabaneta	6.6%	2.4%	85.1%	4.0%	1.9%	376
Sahagún	12.7%	6.2%	71.7%	7.2%	2.3%	908
San Andrés	14.2%	5.9%	72.1%	5.7%	2.1%	423
Santa Marta	12.3%	4.4%	73.1%	7.6%	2.7%	4318

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ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Santander	8.1%	3.8%	80.7%	6.4%	1.1%	6310
Sincelejo	10.0%	6.1%	74.3%	7.8%	1.8%	2439
Soacha	6.6%	3.2%	83.4%	5.5%	1.2%	4203
Sogamoso	6.4%	3.5%	86.4%	2.9%	0.8%	1026
Soledad	9.1%	4.1%	79.1%	6.0%	1.8%	4027
Sucre	15.8%	9.3%	59.9%	11.7%	3.2%	6165
Tolima	11.8%	5.1%	73.1%	8.1%	1.9%	7271
Tuluá	10.6%	3.9%	79.8%	4.5%	1.2%	1652
Tumaco	15.5%	10.1%	53.7%	12.8%	7.9%	1940
Tunja	4.6%	2.9%	87.6%	3.5%	1.4%	1489
Turbo	16.9%	8.1%	59.6%	11.6%	3.8%	1827
Uribia	14.5%	9.8%	50.7%	17.1%	7.8%	1677
Valle del Cauca	11.6%	4.4%	75.1%	7.1%	1.8%	6692
Valledupar	12.0%	4.5%	73.9%	7.2%	2.5%	3944
Vichada	16.8%	7.8%	58.0%	13.9%	3.4%	803
Villavicencio	6.6%	2.4%	84.2%	4.9%	1.8%	4440
Yopal	8.7%	3.2%	81.5%	4.8%	1.7%	1576
Yumbo	8.7%	3.7%	80.1%	6.2%	1.3%	971
Zipaquirá	7.1%	2.1%	84.9%	4.2%	1.6%	994
Colombia	10.4%	4.6%	75.8%	7.0%	2.2%	380331

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

Carrera 7 No. 32-12, Edificio San Martín, Torre Sur, Bogotá, Colombia • www.icfes.gov.co
Líneas de atención al usuario: Bogotá (57-1) 489 7939- Gratuita Nacional: 01 8000 519535