



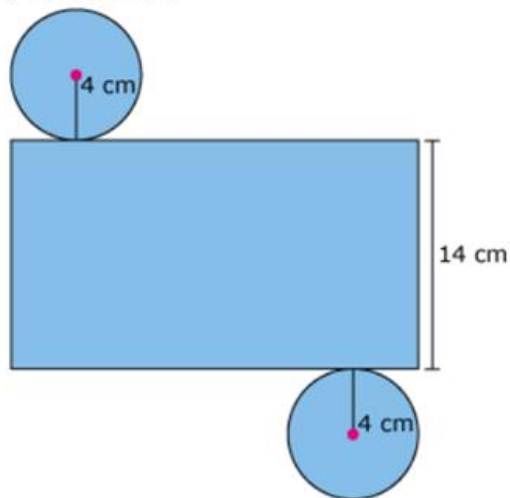
SAMPLES OF STANDARDS STUDENTS ARE LEARNING THIS NINE WEEKS:

7th Grade Comp Math

STANDARDS: 7.G.6, 8.G.1a, 8.G.2, 8.G.3, 8.G.9

7.G.6

A soup company is designing a label for a new soup can. The cans are shaped like right circular cylinders as represented by the net below.

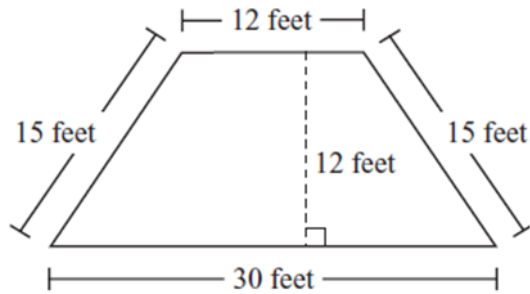


Which of the following can be used to calculate the lateral surface area in square centimeters of the can?

- $\pi(4)^2(14)$
- $2\pi(4)(14)$
- $\pi(4 + 4 + 14)$
- $2\pi(4)^2 + 2\pi(4)(14)$

7.G.6

Mr. Kramer's patio is in the shape of a trapezoid. The trapezoid and its dimensions are shown below.



What is the area of the patio?

- A. 144 square feet
- B. 252 square feet
- C. 315 square feet
- D. 360 square feet

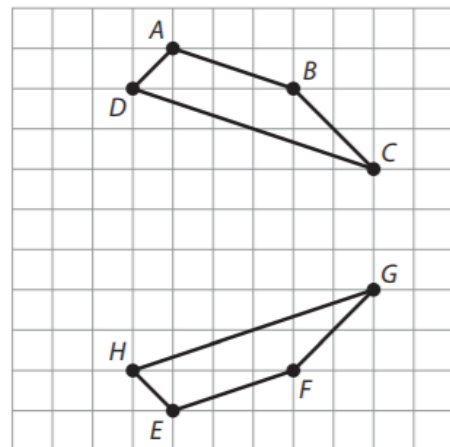
Answer B is correct.

8.G.1a

Trapezoid $EFGH$ is the result of a transformation on Trapezoid $ABCD$.

Write a word or segment from the box to correctly complete the sentences.

parallel	perpendicular	reflection
rotation	translation	\overline{CD} \overline{EF} \overline{FG}

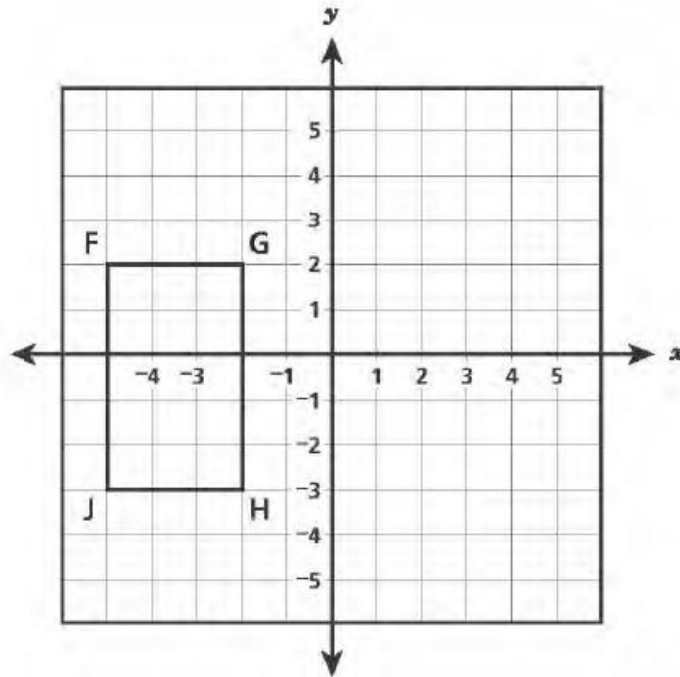


Answer:

$EFGH$ is a _____ of $ABCD$.

If \overline{CD} is parallel to \overline{AB} , then \overline{GH} is _____ to _____.

Rectangle FGHI, shown below, is translated 6 units right and 1 unit up to produce rectangle F'G'H'I'.



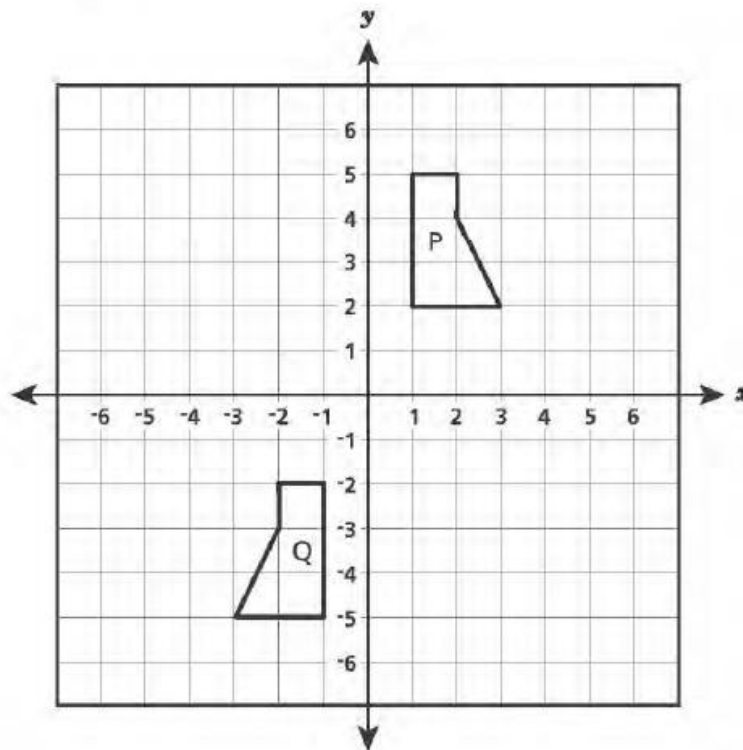
Which statement about the side lengths of rectangle F'G'H'I' is true?

- A $F'G' = 3$ and $G'H' = 5$
- B $F'G' = 3$ and $G'H' = 6$
- C $F'G' = 9$ and $G'H' = 5$
- D $F'G' = 9$ and $G'H' = 6$

Answer A is correct.

8.G.2

Pentagon P and pentagon Q, shown below, are congruent.



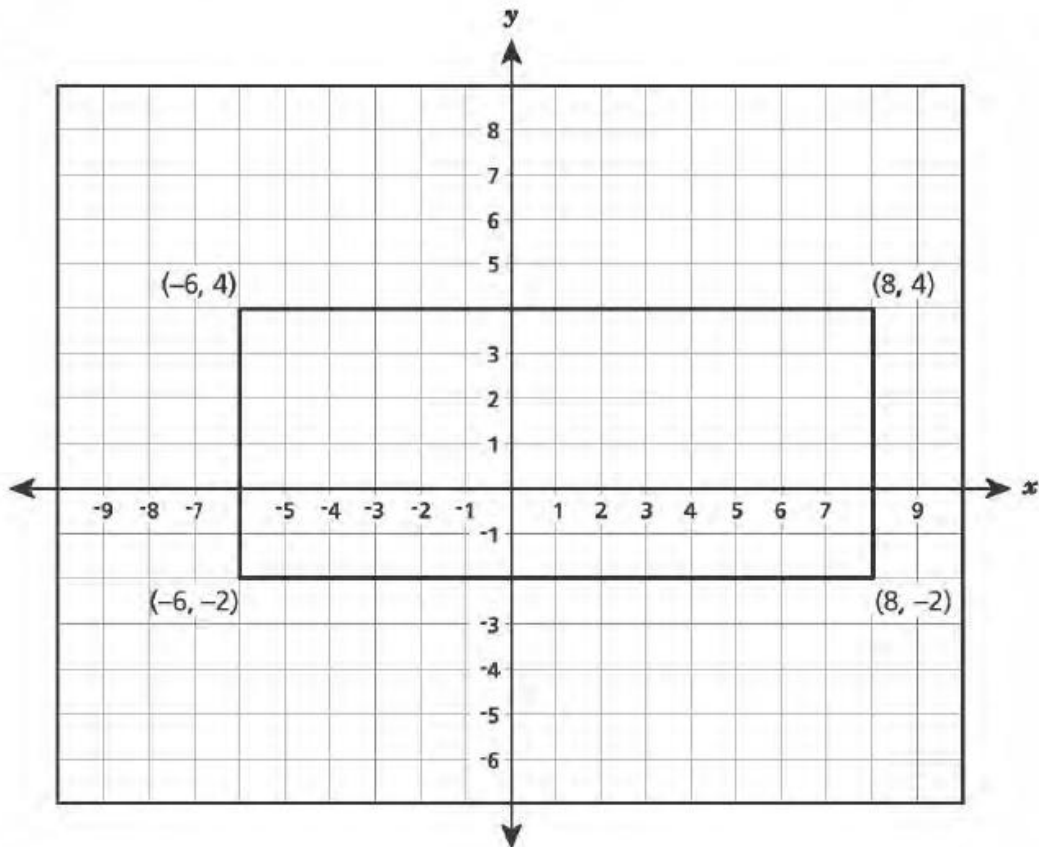
Which sequence could be used to transform pentagon P to pentagon Q?

- A a 180° clockwise rotation about the origin
- B a translation four units left and then a reflection over the x -axis
- C a reflection over the y -axis and then a translation seven units down
- D a translation seven units down and then a 90° clockwise rotation about the origin

Answer C is correct.

8.G.3

Mia enlarged a plan for an outdoor stage. The original plan is shown below.



She dilated the outdoor stage by a scale factor of four with the center of dilation at the origin. Which ordered pair will be the coordinates of one of the new vertices?

- A $(2, 1)$
- B $(8, 16)$
- C $(32, 4)$
- D $(32, 16)$

Answer D is correct.

8.G.9

A cylinder and a cone have congruent heights and radii. What is the ratio of the volume of the cone to the volume of the cylinder?

- A 1 : 1
- B 1 : 3
- C 1 : 6
- D 1 : 9

Answer B is correct.

A cylinder has a radius of 3 inches and a height of $4\frac{3}{4}$ inches. A sphere has a radius of 3 inches. What is the difference between the volumes, to the nearest tenth of a cubic inch, of the cylinder and the sphere?

- A 21.2
- B 51.8
- C 68.3
- D 96.6

Answer A is correct.