

Practice 5

Level: 1

Geometry - Word-Problem - Percentage

1. A point $P(-8, -9)$ is rotated 180° counterclockwise around the origin. What are the coordinates of the point after the rotation?

- A (8, 9) C (-9, 8)
B (-9, -8) D (-8, 9)

3. A point $Q(8, -12)$ is dilated with a scale factor of $1/4$ centered at the origin. What are the new coordinates of the point after the dilation?

- A (4, -6) C (2, -3)
B (-4, 3) D (-2, 6)

5. The area of a sector of a circle with a radius measuring 10 cm is $75\pi \text{ cm}^2$. What is the measure of the central angle that forms the sector?

- A 90° C 180°
B 120° D 270°

7. The price of a jacket was \$80, but it is now on sale for \$60. What is the percent of decrease in the price of the jacket?

- A 20%
B 25%
C 30%
D 10%

2. A point $Q(3, 8)$ is rotated 180° clockwise around the origin. What are the coordinates of the point after the rotation?

- A (8, -3) C (3, 8)
B (-3, -8) D (8, 3)

4. Line segment AB has endpoints $A(6, -10)$ and $B(4, -2)$. What are the coordinates of the midpoint of $\overline{AB}$?

- A (-3, -3) C (-1, $2/3$)
B (1, $1/2$) D (5, -6)

6. If Fatima takes 35 minutes to walk 5 kilometers, how long should it take her to walk 9 kilometers maintaining the same speed?

- A 70 minutes C 63 minutes
B 56 minutes D 45 minutes

8. The number of students in a class increased from 24 to 30. What is the percent of increase in the number of students?

- A 25%
B 15%
C 20%
D 22%