

Quiz 2

Grade 7

Mathematics

Answer the following questions:

► Choose the correct answer from the given ones :

1 $\div (-3x^2y) = 5xy^2$

(a) $15x^2y^2$

(b) $-15x^3y^3$

(c) $\frac{5}{3}xy$

(d) $-\frac{3}{5}xy$

2 If $(x+3)(x-2) = x^2 + bx + c$, then what is the value of c ?

(a) -1

(b) 1

(c) 6

(d) -6

3 If $x - 3 > 5$, then which of the following could be the value of x ?

(a) 6

(b) 7

(c) 8

(d) 9

4 If a cube with an edge length of $3x$, then what is its volume?

(a) $6x^2$

(b) $9x^2$

(c) $27x^3$

(d) $9x$

Choose the correct answer from the given ones :

1 Which of the following is the image of the point $(-3, 7)$ by reflection in the X -axis?

- (a) $(3, 7)$ (b) $(-3, -7)$ (c) $(0, 7)$ (d) $(3, -7)$

2 What is the image of the point $(4, -3)$ by reflection in the X -axis followed by reflection in the y -axis?

- (a) $(-4, 3)$ (b) $(4, 3)$ (c) $(-4, -3)$ (d) $(-3, -4)$

If $(x + 3)$ is one of the factors of the expression $(x^2 - 2x - 15)$, find the other factor.

Choose the correct answer from the given ones :

1 If $\hat{A}(3, 4)$ is the image of the point A by translation $(x - 1, y + 2)$, then the point A is

- (a) $(2, 6)$ (b) $(4, 2)$ (c) $(-2, -6)$ (d) $(4, 5)$

2 What is the translation that makes the point $\hat{A}(-4, 6)$ is the image of the point A $(2, -1)$?

- (a) $(-6, 7)$ (b) $(-2, 5)$ (c) $(6, -7)$ (d) $(-5, 8)$

Choose the correct answer from the given ones :

1 Which of the following is the image of the point $(-3, 7)$ by reflection in the X-axis?

- (a) $(3, 7)$ (b) $(-3, -7)$ (c) $(0, 7)$ (d) $(3, -7)$

2 What is the image of the point $(4, -3)$ by reflection in the X-axis followed by reflection in the y-axis?

- (a) $(-4, 3)$ (b) $(4, 3)$ (c) $(-4, -3)$ (d) $(-3, -4)$

A trapezium with an area of 280 square feet and a height of 10 feet. If the length of one of its parallel bases is 22 feet, then find the length of its other base.
