Multiple choice questions - Four-quadrant coordinates and transformations

Year: Year 6 · 10

Question 1 In which quadrant is (-3, 4)?

- ◯ **A.** first
- ◯ **B.** second
- ◯ **C.** third
- ◯ **D.** fourth

Question 2 What is the reflection of (5, 2) in the y-axis?

- ◯ **A.** (5, -2)
- ◯ **B.** (-5, -2)
- ◯ **C.** (-5, 2)
- ◯ **D.** (2, 5)

Question 3 Translate (1, 1) by 3 left and 2 up. What are the new coordinates?

- ◯ **A.** (4, 3)
- ◯ **B.** (-2, 3)
- ◯ **C.** (-2, -1)
- ◯ **D.** (4, -1)

Question 4 What is the reflection of (-2, -6) in the x-axis?

- ◯ **A.** (2, -6)
- ◯ **B.** (-2, 6)
- ◯ **C.** (2, 6)
- ◯ **D.** (-6, -2)

Question 5 Which of these points is on the x-axis?

- ◯ **A.** (0, 4)
- ◯ **B.** (4, 4)
- ◯ **C.** (4, 0)
- ◯ **D.** (0, 0.4)

Question 6 What are the coordinates of the origin?

- ◯ **A.** (1, 1)
- ◯ **B.** (0, 0)
- ◯ **C.** (0, 1)

◯ **D.** (-1, -1)

Question 7 Three corners of a rectangle are (-1, -1), (3, -1) and (3, 2). What is the fourth?

◯ **A.** (-1, 3)
◯ **B.** (-1, 2)
◯ **C.** (2, -1)
◯ **D.** (3, -1)

Question 8 How far is it from (-3, 2) to (1, 2)?

◯ **A.** 2
◯ **B.** 3
◯ **C.** 4
◯ **D.** 5

Question 9 What is the reflection of (0, 3) in the x-axis?

◯ **A.** (0, 3)
◯ **B.** (0, -3)
◯ **C.** (3, 0)
◯ **D.** (-3, 0)

Question 10 What are the coordinates of the point 2 left of the origin and 5 down?

◯ **A.** (2, 5)
◯ **B.** (-2, 5)
◯ **C.** (-2, -5)
◯ **D.** (2, -5)

Answer grid - Four-quadrant coordinates and transformations

Year: Year 6

Question	Answer	Explanation
1	**B**	x is negative and y is positive: top left.
2	**C**	The x-coordinate changes sign.
3	**B**	1 - 3 = -2 and 1 + 2 = 3.
4	**B**	The y-coordinate changes sign.
5	**C**	On the x-axis, y = 0.
6	**B**	The origin is where the axes cross.
7	**B**	It has the x of (-1, -1) and the y of (3, 2).
8	**C**	From -3 to 1 is 3 + 1 = 4.
9	**B**	The y-coordinate changes sign.
10	**C**	Left is negative x and down is negative y.