Multiple choice questions - Coordinates and translation

Year: Year 4 · 10

Question 1 What are the coordinates of the point 3 across and 5 up?

- ◯ **A.** (5, 3)
- ◯ **B.** (3, 5)
- ◯ **C.** (3, 3)
- ◯ **D.** (8, 0)

Question 2 Which point is at the origin?

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

Question 3 Translate (2, 2) 3 right and 4 up.

- ◯ **A.** (5, 6)
- ◯ **B.** (6, 5)
- ◯ **C.** (5, 2)
- ◯ **D.** (2, 6)

Question 4 Translate (6, 4) 2 left and 3 down.

- ◯ **A.** (4, 1)
- ◯ **B.** (8, 7)
- ◯ **C.** (4, 7)
- ◯ **D.** (8, 1)

Question 5 The translation from (1, 2) to (4, 6) is...

- ◯ **A.** 3 right, 4 up
- ◯ **B.** 4 right, 3 up
- ◯ **C.** 3 left, 4 down
- ◯ **D.** 4 up only

Question 6 A point on the y-axis has...

- ◯ **A.** first number 0
- ◯ **B.** second number 0
- ◯ **C.** both numbers 0

◯ **D.** both numbers the same

Question 7 Which point is on the x-axis?

◯ **A.** (0, 3)
◯ **B.** (3, 0)
◯ **C.** (3, 3)
◯ **D.** (1, 2)

Question 8 When a shape is translated, it...

◯ **A.** turns
◯ **B.** flips
◯ **C.** slides
◯ **D.** gets bigger

Question 9 Three corners of a rectangle are (1, 2), (5, 2) and (5, 4). Where is the fourth corner?

◯ **A.** (1, 4)
◯ **B.** (4, 1)
◯ **C.** (5, 1)
◯ **D.** (1, 5)

Question 10 Which coordinates are the same point?

◯ **A.** (2, 5) and (5, 2)
◯ **B.** (3, 3) and (3, 3)
◯ **C.** (1, 4) and (4, 1)
◯ **D.** (0, 6) and (6, 0)

Answer grid - Coordinates and translation

Year: Year 4

Question	Answer	Explanation
1	**B**	Across first: (3, 5).
2	**C**	The origin is (0, 0).
3	**A**	(2 + 3, 2 + 4) = (5, 6).
4	**A**	(6 - 2, 4 - 3) = (4, 1).
5	**A**	4 - 1 = 3 right, 6 - 2 = 4 up.
6	**A**	It has not gone across.
7	**B**	The second number is 0.
8	**C**	A translation is a slide.
9	**A**	It is above (1, 2): (1, 4).
10	**B**	Only (3, 3) is the same.