



# Coordinate Plane

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. An ant walks from  $(0, 0)$  to  $(6, 0)$  to  $(6, 4)$ .

How many units does it walk in total?

- A) 8 units
- B) 10 units
- C) 12 units
- D) 6 units

2. A rectangle has corners at  $(1, 3)$ ,  $(1, 8)$ , and  $(5, 8)$ . What is the area of the rectangle?

- A) 15 square units
- B) 18 square units
- C) 20 square units
- D) 25 square units

3. Point P is at  $(2, 7)$ . It moves 3 units right, then 4 units down, then 1 unit left. Where does it end up?

- A)  $(4, 3)$
- B)  $(6, 3)$
- C)  $(5, 4)$
- D)  $(3, 4)$

4. Points A $(1, 2)$ , B $(1, 6)$ , and C $(8, 6)$  form a right triangle. What is the total distance from A to B to C?

- A) 10 units
- B) 11 units
- C) 12 units
- D) 9 units

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A path goes  $(0, 0) \rightarrow (3, 0) \rightarrow (3, 5) \rightarrow (0, 5) \rightarrow (0, 0)$ . The total distance is \_\_\_\_\_ units.
2. Three corners of a rectangle are  $(2, 3)$ ,  $(2, 9)$ , and  $(6, 9)$ . The fourth corner is ( \_\_\_\_\_ , \_\_\_\_\_ ).
3. A point at  $(8, 6)$  moves 5 left, then 4 down, then 1 right. It ends at ( \_\_\_\_\_ , \_\_\_\_\_ ).
4. The midpoint between  $(1, 3)$  and  $(7, 3)$  is ( \_\_\_\_\_ , 3).
5. A square has a perimeter of 24 units and one corner at  $(1, 2)$ . If a side runs along the bottom, the opposite corner is at ( \_\_\_\_\_ , \_\_\_\_\_ ).

**Part A: Multiple Choice**

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1. An ant walks from (0, 0) to (6, 0) to (6, 4).

How many units does it walk in total?

- A) 8 units
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2. A rectangle has corners at (1, 3), (1, 8), and (5, 8). What is the area of the rectangle?

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3. Point P is at (2, 7). It moves 3 units right, then 4 units down, then 1 unit left. Where does it end up?

- A) (4, 3)
- B) (6, 3)
- C) (5, 4)
- D) (3, 4)

4. Points A(1, 2), B(1, 6), and C(8, 6) form a right triangle. What is the total distance from A to B to C?

- A) 10 units
- B) 11 units
- C) 12 units
- D) 9 units

**Part B: Fill in the Blank**

Write the correct answer on each line.

1. A path goes  $(0, 0) \rightarrow (3, 0) \rightarrow (3, 5) \rightarrow (0, 5) \rightarrow (0, 0)$ . The total distance is 16 units.
2. Three corners of a rectangle are (2, 3), (2, 9), and (6, 9). The fourth corner is (6, 3).
3. A point at (8, 6) moves 5 left, then 4 down, then 1 right. It ends at (4, 2).
4. The midpoint between (1, 3) and (7, 3) is (4, 3).
5. A square has a perimeter of 24 units and one corner at (1, 2). If a side runs along the bottom, the opposite corner is at (7, 8).