

Unit 7: Shapes on the Coordinate Grid

PRACTICE · SET 4

Name: _____ Date: _____

Solve each problem and write your short answer on the line. Write coordinate pairs like (4, 9), and include units or the $^{\circ}$ symbol when the problem uses them.

1. In a video game, a robot named Bolt starts at (2, 3). Bolt moves 5 units right, then 4 units up. What are Bolt's new coordinates?

Answer: _____

3. Three corners of a rectangular soccer field are marked at (1, 2), (1, 7), and (9, 2). What are the coordinates of the fourth corner?

Answer: _____

5. The triangle frame of Nadia's kite has two angles that measure 40° and 50° . What is the measure of the third angle?

Answer: _____

7. The triangle flag on Omar's bike has sides of 8 cm, 8 cm, and 5 cm. Classify this triangle by its sides: scalene, isosceles, or equilateral?

Answer: _____

9. A delivery drone hovers at (5, 8). It flies 4 units left and 3 units down. What are the drone's new coordinates?

Answer: _____

2. On the aquarium map, the penguin pool is at (6, 9) and the snack cart is at (6, 2). How many units apart are they?

Answer: _____

4. A community garden is a rectangle with corners at (3, 1), (3, 6), (11, 6), and (11, 1). What is its area in square units?

Answer: _____

6. A four-sided mosaic tile has angles of 100° , 85° , and 95° . What is the measure of its fourth angle?

Answer: _____

8. On a camp trail map, the tent is at (4, 2) and the lake is at (4, 10). A water station sits exactly halfway between them. What are the water station's coordinates?

Answer: _____

10. Priya walks her dog from (0, 0) straight to (0, 6), then straight to (8, 6). How many units does she walk in all?

Answer: _____

11. A tabletop has exactly 4 sides, and exactly one pair of those sides is parallel. What is the name of this quadrilateral?

Answer: _____

12. A roof truss is an isosceles triangle. Two of its angles each measure 65° . What is the measure of the third angle?

Answer: _____