

Unit 7: Shapes on the Coordinate Grid

PRACTICE • SET 3

Name: _____

Date: _____

Solve each problem and write your answer on the line. Give coordinate pairs as (x, y) , and include units or the $^\circ$ symbol when the problem uses them.

1. In a video game, Zeke's robot is standing at $(7, 3)$ on the grid map. Zeke moves the robot 4 units right and 5 units up. What coordinate pair is the robot on now?

Answer: _____

3. Three corners of a rectangular splash pad are at $(3, 2)$, $(10, 2)$, and $(10, 6)$. What is the coordinate pair of the fourth corner?

Answer: _____

5. A square kite-festival banner has corners at $(4, 4)$, $(4, 11)$, $(11, 11)$, and $(11, 4)$. What is the area of the banner in square units?

Answer: _____

7. Mia meant to plot a point 8 units to the right of 0 and 5 units up. By mistake she wrote $(5, 8)$. What coordinate pair should she have written?

Answer: _____

9. A triangular slice of pizza has angles measuring 40° , 40° , and 100° . Classify this triangle by its angles: acute, right, or obtuse?

Answer: _____

2. On a zoo map, the penguin pool is at $(12, 5)$ and the snack cart is at $(3, 5)$. The two points are on the same horizontal line. How many units apart are they?

Answer: _____

4. A rectangular garden bed has corners at $(1, 4)$, $(1, 12)$, $(6, 12)$, and $(6, 4)$. What is the perimeter of the garden bed in units?

Answer: _____

6. At a campsite, one lantern post is at $(3, 6)$ and another is at $(11, 6)$. A picnic table sits exactly halfway between them. What coordinate pair is the picnic table on?

Answer: _____

8. A triangular flag has two angles that measure 25° and 65° . What is the measure of the third angle?

Answer: _____

10. A triangular road sign has sides of 7 cm, 7 cm, and 12 cm. Classify this triangle by its sides: equilateral, isosceles, or scalene?

Answer: _____

11. A parallelogram-shaped floor tile has one angle that measures 62° . What is the measure of the angle right next to it?

Answer: _____

12. A kite-shaped quadrilateral has three angles measuring 100° , 75° , and 100° . What is the measure of the fourth angle?

Answer: _____