

Unit 2: Area and Multiplication

ADVANCED · SET 4

Name: _____ Date: _____

Solve each problem and write your short answer on the line. Show your multiplication work on scrap paper, and remember that area is measured in square units.

1. A community garden bed is a rectangle 7 feet wide and 14 feet long. What is the area of the garden bed in square feet?

Answer: _____

3. A rectangular rug covers 72 square feet of floor. The rug is 8 feet long. How many feet wide is the rug?

Answer: _____

5. A patio floor is a rectangle 12 feet long and 9 feet wide. A square hot tub base that is 4 feet on each side sits on the patio. The rest of the patio gets tile. How many square feet of the patio get tile?

Answer: _____

7. A quilt is made of 12 identical rectangular patches. Each patch is 5 inches by 4 inches. What is the total area of all 12 patches in square inches?

Answer: _____

9. A lawn is a rectangle 7 meters by 8 meters. New grass costs \$3 for each square meter. How many dollars will it cost to cover the whole lawn?

Answer: _____

2. A wall mural is a rectangle 6 meters tall and 17 meters long. Ravi finds the area by breaking it into a 6×10 part and a 6×7 part. What is the total area of the mural in square meters?

Answer: _____

4. A school stage is built from two rectangles pushed together with no overlap. One rectangle is 9 feet by 4 feet. The other rectangle is 6 feet by 5 feet. What is the total area of the stage in square feet?

Answer: _____

6. Maya covers the bottom of a tray with 1-inch squares. She makes 6 full rows with 13 squares in each row, and then one last row that holds only 5 squares. What is the total area she covered, in square inches?

Answer: _____

8. Mrs. Diaz has a bulletin board that is 6 feet tall and 14 feet long. She divides the whole board equally among 7 groups. How many square feet does each group get?

Answer: _____

10. Two rectangular tabletops have exactly the same area. The first tabletop is 4 feet by 24 feet. The second tabletop is 8 feet wide. How many feet long is the second tabletop?

Answer: _____

11. A sandbox is 5 feet wide and 9 feet long. A new sandbox is built with the same width but twice the length. What is the area of the new sandbox in square feet?

Answer: _____

12. A tarp is a square that is 9 meters on each side. A pool cover is a rectangle 15 meters by 6 meters. Does the tarp cover more area than the pool cover? Answer yes or no.

Answer: _____