

Unit 2: Area and Multiplication

ADVANCED

Name: _____ Date: _____

Show your work and write your final answer on the line for each problem.

1. A rectangular garden is 14 units long and 8 units wide. What is its area in square units?

Answer: _____

3. A large rectangle is split into two smaller rectangles. One piece is 7 units by 9 units and the other is 7 units by 6 units. What is the total area of the large rectangle in square units? (Use the distributive property: $7 \times (9 + 6)$.)

Answer: _____

5. A rectangular room floor is 15 units long and 6 units wide. It is covered with square tiles that are each 1 unit by 1 unit. How many tiles are needed?

Answer: _____

7. A square has an area of 49 square units. What is the length of one side in units?

Answer: _____

9. A wall is 9 units tall and 24 units wide. Find its area using the distributive property by breaking 24 into $20 + 4$. What is the total area in square units?

Answer: _____

2. A rectangle has an area of 96 square units and a side length of 6 units. What is the length of the other side?

Answer: _____

4. An L-shaped figure is made of two rectangles. Rectangle A is 12 units by 5 units. Rectangle B is 4 units by 7 units. What is the total area in square units?

Answer: _____

6. A rectangle has an area of 72 square units. If its width is 8 units, what is its perimeter in units?

Answer: _____

8. A rectangle is 13 units by 4 units. A smaller rectangle 5 units by 4 units is cut out of it. What area remains, in square units?

Answer: _____

10. Three identical rectangular posters each measure 6 units by 11 units. What is their combined area in square units?

Answer: _____

11. A rectangular field has an area of 108 square units and a length of 12 units. A path of area 27 square units is paved on it. How many square units of the field are NOT paved?

Answer: _____

12. A big rectangle measures 16 units by 9 units. It is divided into two rectangles by a line: one part is 16 units by 5 units. What is the area of the other part in square units?

Answer: _____