

Unit 2: Area and Multiplication

ADVANCED · SET 2

Name: _____ Date: _____

Show your work and write only the final answer (a number) for each problem. All lengths are in the same unit and areas are in square units unless a unit is given.

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

Answer: _____

3. A rectangle has an area of 126 square units. One side length is 9 units. What is the length of the other side?

Answer: _____

5. A square tile has a side length of 13 units. What is its area in square units?

Answer: _____

7. Rectangle A is 9 units by 7 units. Rectangle B is 8 units by 8 units. How many square units greater is the area of Rectangle B than the area of Rectangle A?

Answer: _____

9. Find 6×18 by using the break-apart (distributive) method: $6 \times 18 = (6 \times 10) + (6 \times 8)$. What is the total?

Answer: _____

2. Find 8×13 by using the break-apart (distributive) method: $8 \times 13 = (8 \times 10) + (8 \times 3)$. What is the total?

Answer: _____

4. An L-shaped floor is made of two rectangles that do not overlap. The first rectangle is 6 units by 5 units. The second rectangle is 4 units by 7 units. What is the total area of the floor in square units?

Answer: _____

6. A rectangular floor is 15 units long and 8 units wide. It is completely covered by square tiles that are each 1 unit by 1 unit, with no gaps. How many tiles are used?

Answer: _____

8. A rectangular room is 9 units by 7 units. A rug that is 4 units by 5 units is placed on the floor. How many square units of the floor are NOT covered by the rug?

Answer: _____

10. A large poster is made of 3 identical rectangular panels placed side by side. Each panel is 6 units by 4 units. What is the total area of the poster in square units?

Answer: _____

11. A rectangle has an area of 108 square units. One side length is 12 units. What is the length of the other side?

Answer: _____

12. Start with a rectangle that is 10 units by 8 units. A smaller rectangular corner that is 3 units by 2 units is cut out and removed. What is the area of the remaining shape in square units?

Answer: _____