

# Area of Rectangles and Squares

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

The **area** of a shape is the amount of flat space it covers, measured in **square units**. For a **rectangle**, area equals **length times width**:  $A = l \times w$ . A **square** is just a rectangle whose sides are all equal, so its area is **side times side**:  $A = s \times s = s^2$ . Always include square units in your answer, like  $\text{cm}^2$  or  $\text{ft}^2$ . If side lengths are decimals or fractions, multiply them the same careful way — the formula never changes.

◊ **Example:** Find the area of a rectangle with length 8 cm and width 5 cm.  
 ⇒ For a rectangle, area is length times width. Here the length is 8 cm and the width is 5 cm, so multiply:  $8 \times 5 = 40$ . Because we multiplied centimeters by centimeters, the units become square centimeters. So the area is 40 square centimeters, written  $40 \text{ cm}^2$ .

**Answer:**  $40 \text{ cm}^2$

## PRACTICE

Find the area of each rectangle or square. Include square units.

- |   |       |   |       |
|---|-------|---|-------|
| 1. Rectangle: $l = 8 \text{ cm}, w = 5 \text{ cm}$    | _____ | 11. Square: $s = 2.5 \text{ m}$                       | _____ |
| 2. Rectangle: $l = 12 \text{ m}, w = 4 \text{ m}$     | _____ | 12. Rectangle: $l = 14 \text{ in}, w = 5 \text{ in}$  | _____ |
| 3. Square: $s = 7 \text{ in}$                         | _____ | 13. Square: $s = 9 \text{ ft}$                        | _____ |
| 4. Rectangle: $l = 9 \text{ ft}, w = 6 \text{ ft}$    | _____ | 14. Rectangle: $l = 7.5 \text{ cm}, w = 6 \text{ cm}$ | _____ |
| 5. Rectangle: $l = 15 \text{ cm}, w = 3 \text{ cm}$   | _____ | 15. Rectangle: $l = 18 \text{ m}, w = 3 \text{ m}$    | _____ |
| 6. Square: $s = 11 \text{ m}$                         | _____ | 16. Square: $s = 12 \text{ in}$                       | _____ |
| 7. Rectangle: $l = 6.5 \text{ cm}, w = 4 \text{ cm}$  | _____ | 17. Rectangle: $l = 4.2 \text{ m}, w = 5 \text{ m}$   | _____ |
| 8. Rectangle: $l = 10 \text{ in}, w = 2.5 \text{ in}$ | _____ | 18. Rectangle: $l = 16 \text{ ft}, w = 4 \text{ ft}$  | _____ |
| 9. Rectangle: $l = 13 \text{ ft}, w = 8 \text{ ft}$   | _____ | 19. Square: $s = 8.5 \text{ cm}$                      | _____ |
| 10. Square: $s = 20 \text{ cm}$                       | _____ | 20. Rectangle: $l = 25 \text{ m}, w = 10 \text{ m}$   | _____ |

## ◆ Word Problems

21. A rectangular rug is 9 feet long and 6 feet wide. What is the area of the rug? \_\_\_\_\_
22. A square garden has sides of 12 meters. How many square meters of soil are needed to cover it? \_\_\_\_\_
23. A bedroom floor is 13 feet long and 8 feet wide. What is its area? \_\_\_\_\_
24. A poster is 2.5 feet wide and 4 feet tall. What is the area of the poster? \_\_\_\_\_



## Answer Keys

- |  |  |
|--|--|
| <p>1. <math>40 \text{ cm}^2</math></p> <p>2. <math>48 \text{ m}^2</math></p> <p>3. <math>49 \text{ in}^2</math></p> <p>4. <math>54 \text{ ft}^2</math></p> <p>5. <math>45 \text{ cm}^2</math></p> <p>6. <math>121 \text{ m}^2</math></p> <p>7. <math>26 \text{ cm}^2</math></p> <p>8. <math>25 \text{ in}^2</math></p> <p>9. <math>104 \text{ ft}^2</math></p> <p>10. <math>400 \text{ cm}^2</math></p> <p>11. <math>6.25 \text{ m}^2</math></p> <p>12. <math>70 \text{ in}^2</math></p> | <p>13. <math>81 \text{ ft}^2</math></p> <p>14. <math>45 \text{ cm}^2</math></p> <p>15. <math>54 \text{ m}^2</math></p> <p>16. <math>144 \text{ in}^2</math></p> <p>17. <math>21 \text{ m}^2</math></p> <p>18. <math>64 \text{ ft}^2</math></p> <p>19. <math>72.25 \text{ cm}^2</math></p> <p>20. <math>250 \text{ m}^2</math></p> <p>21. <math>54 \text{ ft}^2</math></p> <p>22. <math>144 \text{ m}^2</math></p> <p>23. <math>104 \text{ ft}^2</math></p> <p>24. <math>10 \text{ ft}^2</math></p> |
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### Step-by-Step Explanations

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|--|---|
| <p>1. Area = <math>l \times w = 8 \times 5 = 40 \text{ cm}^2</math>.</p> <p>2. Area = <math>12 \times 4 = 48 \text{ m}^2</math>.</p> <p>3. Area = <math>s^2 = 7 \times 7 = 49 \text{ in}^2</math>.</p> <p>4. Area = <math>9 \times 6 = 54 \text{ ft}^2</math>.</p> <p>5. Area = <math>15 \times 3 = 45 \text{ cm}^2</math>.</p> <p>6. Area = <math>s^2 = 11 \times 11 = 121 \text{ m}^2</math>.</p> <p>7. Area = <math>6.5 \times 4 = 26 \text{ cm}^2</math>.</p> <p>8. Area = <math>10 \times 2.5 = 25 \text{ in}^2</math>.</p> <p>9. Area = <math>13 \times 8 = 104 \text{ ft}^2</math>.</p> <p>10. Area = <math>s^2 = 20 \times 20 = 400 \text{ cm}^2</math>.</p> <p>11. Area = <math>s^2 = 2.5 \times 2.5 = 6.25 \text{ m}^2</math>.</p> <p>12. Area = <math>14 \times 5 = 70 \text{ in}^2</math>.</p> | <p>13. Area = <math>s^2 = 9 \times 9 = 81 \text{ ft}^2</math>.</p> <p>14. Area = <math>7.5 \times 6 = 45 \text{ cm}^2</math>.</p> <p>15. Area = <math>18 \times 3 = 54 \text{ m}^2</math>.</p> <p>16. Area = <math>s^2 = 12 \times 12 = 144 \text{ in}^2</math>.</p> <p>17. Area = <math>4.2 \times 5 = 21 \text{ m}^2</math>.</p> <p>18. Area = <math>16 \times 4 = 64 \text{ ft}^2</math>.</p> <p>19. Area = <math>s^2 = 8.5 \times 8.5 = 72.25 \text{ cm}^2</math>.</p> <p>20. Area = <math>25 \times 10 = 250 \text{ m}^2</math>.</p> <p>21. Area = <math>l \times w = 9 \times 6 = 54</math> square feet.</p> <p>22. Area = <math>s^2 = 12 \times 12 = 144</math> square meters.</p> <p>23. Area = <math>l \times w = 13 \times 8 = 104</math> square feet.</p> <p>24. Area = <math>l \times w = 4 \times 2.5 = 10</math> square feet.</p> |
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