Area of Rectangles and Squares

Name: _____	Date: _____	Score: _____ / 24

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

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

Step-by-Step Explanations

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

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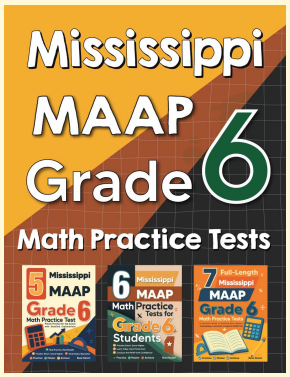

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