

Basic Geometry

Geometry · Grade 3

Score: _____ / 10

◆ Medium · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

- Find the area of a right triangle with base 6 cm and height 4 cm.

Answer: _____

- An L-shaped room has two rectangles:

A: 4 m × 3 m and B: 2 m × 5 m

Find the total area.

Answer: _____

3. A rectangle has perimeter 26 cm and width 5 cm.

Find its area.

Answer: _____

4. Find the area of a right triangle with base 10 m and height 7 m.

Answer: _____

5. A wall is $5\text{ m} \times 3\text{ m}$. A window ($1\text{ m} \times 2\text{ m}$) is cut into it.

What is the painted wall area?

Answer: _____

6. How many $2\text{ cm} \times 2\text{ cm}$ tiles cover a $10\text{ cm} \times 8\text{ cm}$ surface?

Answer: _____

7. A $6\text{ m} \times 4\text{ m}$ rectangle has a $2\text{ m} \times 2\text{ m}$ square removed from a corner.
Find the remaining area.

Answer: _____

8. A right triangle has legs of 9 cm and 12 cm .
What is its area?

Answer: _____

9. Find the area of a rectangle with length 11 cm and width 6 cm.

Answer: _____

10. A rug is $8\text{ m} \times 5\text{ m}$. What is its area?

Answer: _____

Answer Key

Basic Geometry — Medium

1. **12 cm²**

$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times 6 \times 4 = 12 \text{ cm}^2$.

2. **22 m²**

$A: 12 \text{ m}^2$. $B: 10 \text{ m}^2$. $\text{Total: } 22 \text{ m}^2$.

3. **40 cm²**

$l + 5 = 13$, so $l = 8$. $\text{Area} = 8 \times 5 = 40 \text{ cm}^2$.

4. **35 m²**

$\text{Area} = \frac{1}{2} \times 10 \times 7 = 35 \text{ m}^2$.

5. **13 m²**

$\text{Wall: } 15 \text{ m}^2$. $\text{Window: } 2 \text{ m}^2$. $\text{Painted: } 15 - 2 = 13 \text{ m}^2$.

6. **20 tiles**

$\text{Surface: } 80 \text{ cm}^2$. $\text{Tile: } 4 \text{ cm}^2$. $80 \div 4 = 20 \text{ tiles}$.

7. **20 m²**

$\text{Rectangle: } 24 \text{ m}^2$. $\text{Square: } 4 \text{ m}^2$. $\text{Remaining: } 24 - 4 = 20 \text{ m}^2$.

8. **54 cm²**

$\text{Area} = \frac{1}{2} \times 9 \times 12 = 54 \text{ cm}^2$.

9. **66 cm²**

$\text{Area} = 11 \times 6 = 66 \text{ cm}^2$.

10. **40 m²**

$\text{Area} = 8 \times 5 = 40 \text{ m}^2$.