Aksum Math

Basic Geometry

Geometry · Grade 3

★ Hard · 10 Questions

Name: _____

Date: _____

Score: _____ / 10

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

1. Find the area of a triangle with base 14 m and height 9 m.

Answer: _____

2. A triangle has area 30 cm² and height 6 cm.
Find its base.

Answer: _____

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3. A room is 7 m × 5 m. Carpet costs $12 per m².
Total carpet cost?

Answer: _____

4. L-shape: total 10 m × 6 m with a 4 m × 3 m cut-out.
Find the area.

Answer: _____

5. Two squares have sides 5 cm and 8 cm.
How much greater is the larger area?

Answer: _____

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6. Paint covers 10 m² per litre.
A wall is 8 m × 3 m with two 1 m × 2 m windows.
How many litres are needed?

Answer: _____

7. A rectangle has area 56 cm² and length 8 cm.
Find its width.

Answer: _____

8. A poster is 9 m by 7 m. A 3 m × 2 m logo is glued on top.
What area of the poster is still showing?

Answer: _____

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9. Two rectangles together form a shape:

A: 5 m × 4 m and B: 3 m × 4 m

What is the total area?

Answer: _____

10. A square garden has area 64 m².

Find the length of one side.

Answer: _____

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Answer Key

Basic Geometry — Hard

1. **63 m²**

Area = ½ × 14 × 9 = 63 m².

2. **10 cm**

30 = ½ × base × 6. base = 60÷6 = 10 cm.

3. **$420**

Area = 35 m². Cost = 35 × $12 = $420.

4. **48 m²**

Total: 60 m². Cut-out: 12 m². L-shape: 60−12=48 m².

5. **39 cm²**

64−25=39 cm².

6. **2 litres**

Wall: 8×3=24 m². Windows: 2×(1×2)=4 m². Paintable: 24−4=20 m². Litres: 20÷10=2.

7. **7 cm**

Width = area ÷ length = 56 ÷ 8 = 7 cm.

8. **57 m²**

Poster: 9 × 7 = 63 m². Logo: 6 m². Showing: 63 − 6 = 57 m².

9. **32 m²**

A: 20 m². B: 12 m². Total: 20 + 12 = 32 m².

10. **8 m**

Side × side = 64. 8 × 8 = 64, so side = 8 m.

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