Area of rectangles, triangles and parallelograms

6 questions | 13 marks

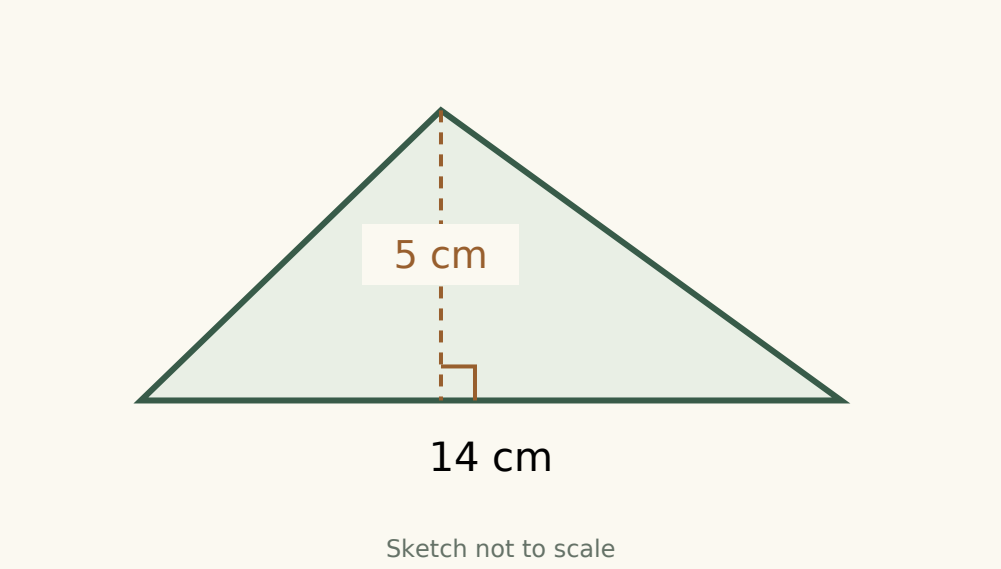
Equivalent correct methods earn the corresponding marks.

1. Find the area of a rectangle 9 cm by 6 cm. [1 mark]

$9 \times 6 = 54$ cm².

Answer: 54 cm²

2. Find the area of a triangle with base 14 cm and perpendicular height 5 cm. [2 marks]



Sketch not to scale

$\frac{1}{2} \times 14 \times 5 = 35$ cm².

Answer: 35 cm²

3. A parallelogram has base 11 m, perpendicular height 4 m and sloping side 5 m. Find its area. [2 marks]

Use height 4 m, not sloping side 5 m.

$11 \times 4 = 44$ m².

Answer: 44 m²

4. A triangle has area 36 cm² and base 12 cm. Find its perpendicular height. [3 marks]

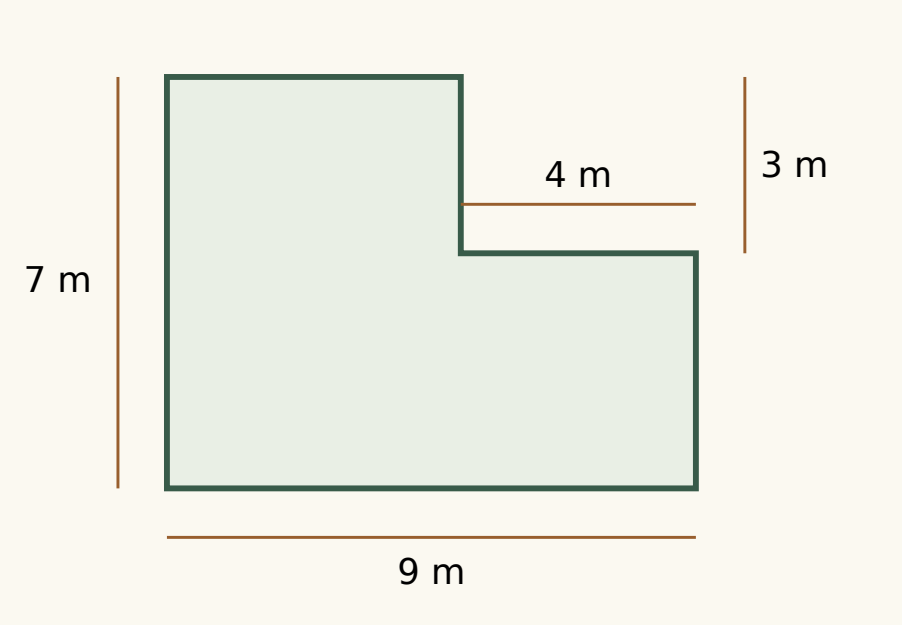
$36 = \frac{1}{2} \times 12 \times \text{height}$.

$36 = 6 \times \text{height}$.

$\text{Height} = 36 \div 6 = 6$ cm.

Answer: 6 cm

5. Find the area of the L-shaped region shown. [3 marks]



Full rectangle: $9 \times 7 = 63$ m².

Missing rectangle: $4 \times 3 = 12$ m².

$63 - 12 = 51$ m².

Answer: 51 m²

6. A triangle and a parallelogram have the same base and perpendicular height. The parallelogram has area 48 cm². Find the triangle area and explain. [2 marks]

A triangle has half the area for the same base and height.

$48 \div 2 = 24$ cm².

Answer: 24 cm²