Perimeter and composite area

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Find perimeter and area of a 9 m by 4 m rectangle. [2 marks]

$P = 2(9 + 4) = 26$.

$A = 9 \times 4 = 36$.

Answer: 26 m; 36 m^2.

2. A 15 m by 8 m rectangle has a 5 m by 3 m corner removed. Find area. [2 marks]

$15 \times 8 - 5 \times 3 = 120 - 15 = 105$.

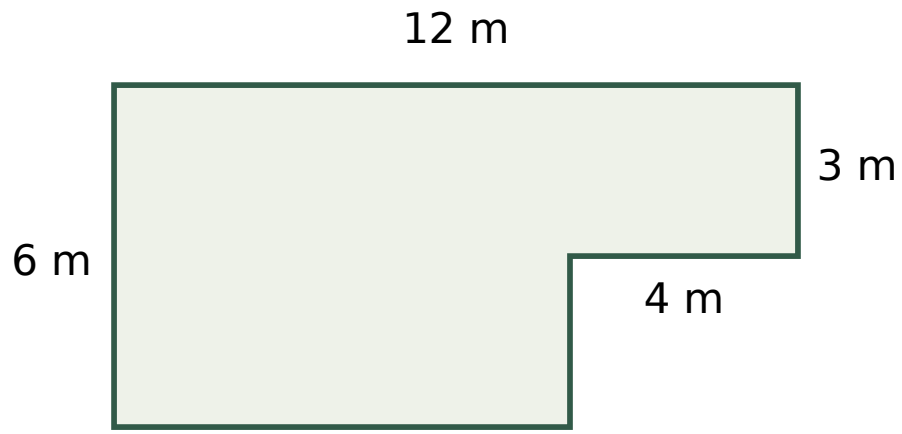
Answer: 105 m^2.

3. A triangle has base 14 cm and perpendicular height 9 cm. Find area. [2 marks]

$A = \frac{1}{2} \times 14 \times 9 = 63$.

Answer: 63 cm^2.

4. Find perimeter of the illustrated L-shape. [3 marks]



Sketch not to scale

The removed outer lengths are replaced by equally long notch edges.

Perimeter remains $2(12 + 6) = 36$ m.

Answer: 36 m.

5. A 6 m by 4 m room has a 2 m by 1 m alcove added outside a wall, with no overlap. Find floor area. [2 marks]

$6 \times 4 + 2 \times 1 = 24 + 2 = 26$.

Answer: 26 m^2.

6. A circular pond has radius 3 m. Find circumference to 2 decimal places. [2 marks]

$C = 2\pi r = 6\pi$.

$6\pi \approx 18.85$ m.

Answer: 18.85 m.