Perimeter

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. Find the perimeter of a rectangle 8 cm by 3 cm. [2 marks]

$2(8 + 3) = 22$ cm.

Answer: 22 cm

2. A triangle has sides 5 cm, 7 cm and 9 cm. Find its perimeter. [1 mark]

$5 + 7 + 9 = 21$ cm.

Answer: 21 cm

3. A rectangle has perimeter 30 m and length 9 m. Find its width. [3 marks]

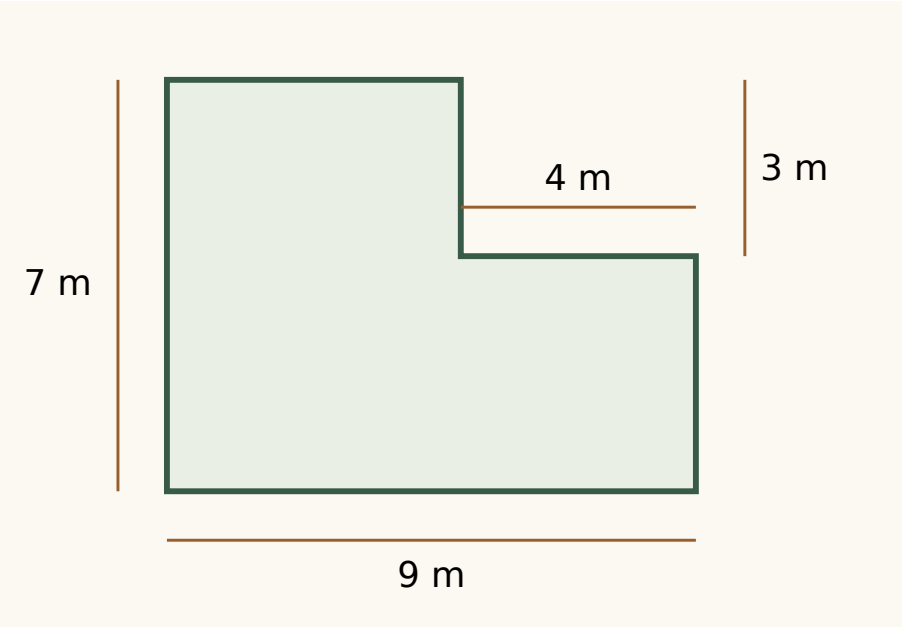
The two long sides total 18 m.

The other two sides total $30 - 18 = 12$ m.

Each width is $12 \div 2 = 6$ m.

Answer: 6 m

4. Find the perimeter of the L-shaped outline shown. The missing corner is 4 m wide and 3 m high. [3 marks]



Top short side = 9 − 4 = 5 m; right lower side = 7 − 3 = 4 m.

Boundary = 5 + 3 + 4 + 4 + 9 + 7.

Total = 32 m.

Answer: 32 m

5. A 10 m by 6 m garden has a 1.5 m gate. Find the fencing length. [2 marks]

Complete perimeter = 2(10 + 6) = 32 m.

32 − 1.5 = 30.5 m.

Answer: 30.5 m

6. Two rectangles each have area 24 cm². One is 6 cm by 4 cm; the other is 8 cm by 3 cm. Compare their perimeters. [3 marks]

First perimeter: 2(6 + 4) = 20 cm.

Second perimeter: 2(8 + 3) = 22 cm.

The different side lengths change the boundary length.

Answer: 20 cm and 22 cm; equal area does not imply equal perimeter.