Finding missing rectangle dimensions

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. A rectangle has area 24 square centimetres and width 4 cm. Find its length. [1 mark]

$24 \div 4 = 6$.

Answer: 6 cm.

2. A rectangle has area 63 square metres and length 9 m. Find its width. [1 mark]

$63 \div 9 = 7$.

Answer: 7 m.

3. A rectangle has area 100 square centimetres and width 5 cm. Find its length. [1 mark]

$100 \div 5 = 20$.

Answer: 20 cm.

4. Give two different whole-number side pairs for a rectangle of area 36 square centimetres. [2 marks]

Both products equal 36. Other valid pairs are acceptable.

Answer: For example, 9 cm by 4 cm and 12 cm by 3 cm.

5. A 48-square-metre garden has width 6 m. Find its length and perimeter. [2 marks]

$48 \div 6 = 8$; $8 + 6 + 8 + 6 = 28$.

Answer: Length 8 m; perimeter 28 m.

6. A rectangle has area 42 square centimetres and one side of 7 cm. A learner calculates $42 - 7$ to find the other side. Explain the error and find the correct side length. [2 marks]

The area formula multiplies the side lengths, so division, not subtraction, undoes it.

Answer: Divide 42 by 7 to get 6 cm.