4.7 Perimeter and Area of Rectangles and Triangles: 10-minute Pack

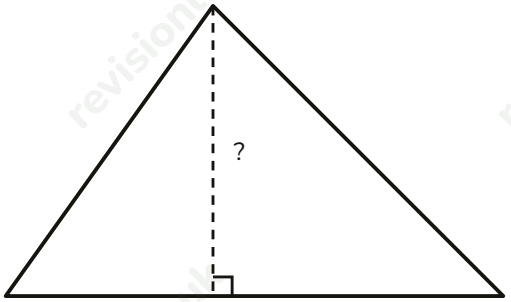
Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A triangle has base 5 cm and area 30 cm². Work out the height of the triangle.

Diagram NOT accurately drawn



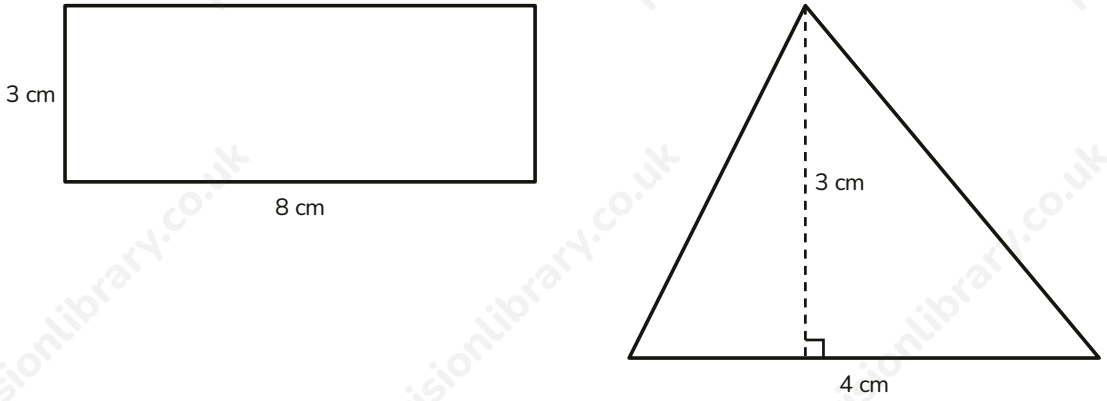
Area = 30 cm²

(2)

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2 A shape is made from a rectangle and a triangle. The rectangle is 8 cm by 3 cm. The triangle has base 4 cm and height 3 cm and sits on one short side of the rectangle. Calculate the total area of the shape.

Diagram NOT accurately drawn

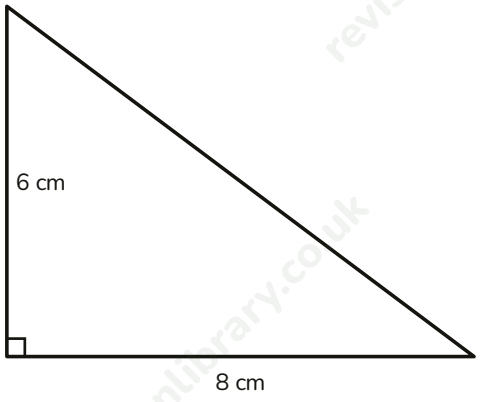


(2)

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3 A right-angled triangle has legs of length 6 cm and 8 cm. Calculate its area.

Diagram NOT accurately drawn

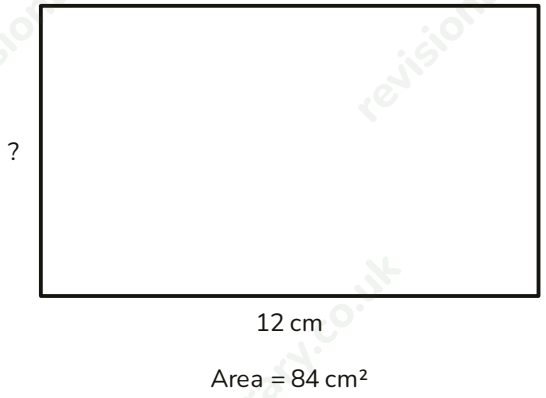


(1)

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4 A rectangle has length 12 cm and area 84 cm². Work out its width.

Diagram NOT accurately drawn



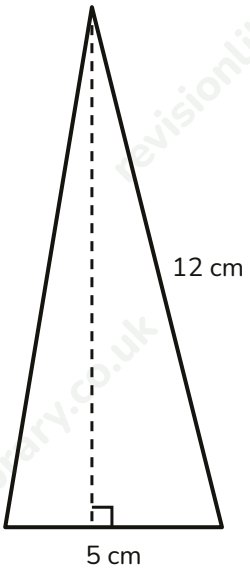
Area = 84 cm²

(1)

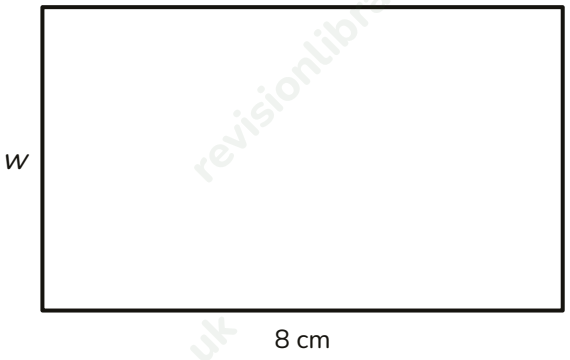
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5 A triangle has base 5 cm and height 12 cm so area is 30 cm². A rectangle has length 8 cm and unknown width w. The rectangle and triangle have the same area. Find w.

Diagram NOT accurately drawn



Area = 30 cm²



(2)

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Mark scheme · 4.7 Perimeter and Area of Rectangles and Triangles: 10-minute Pack

Question 1

use area = 1/2 x base x height to form 30 = 1/2 x 5 x h	**M1**
h = 12 cm cao	**A1**

Answer: **12 cm**

Question 2

area of rectangle and triangle found: 8x3 and 1/2x4x3	**M1**
total = 30 cm² cao (24 + 6 = 30)	**A1**

Answer: **30 cm^2**

Question 3

24 cm² cao (1/2 x 6 x 8)	**B1**

Answer: **24 cm^2**

Question 4

7 cm cao	**B1**

Answer: **7 cm**

Question 5

use rectangle area = length x width and equate to 30	**M1**
w = 3.75 cm cao	**A1**

Answer: **3.75 cm**

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