# Area and perimeter

Year 7 | Key Stage 3 | 12 questions, 36 marks

**KS3 Maths topic practice**

Scan for the solutions

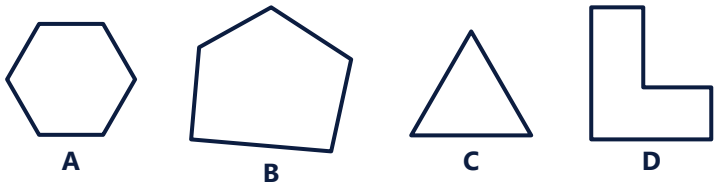
**Name:** _____ **Date:** _____ **Score:** _____ **/ 36**

**1** Write down the mathematical name of a polygon with exactly five sides. (1 mark)

Answer _____

**2** Here are four polygons, A, B, C and D.

For each polygon, write down its name and whether it is regular or irregular.




(4 marks)

Answer _____

**3** A rectangle has length 9 cm and width 4 cm.

a. Work out the area of the rectangle.

b. Work out the perimeter of the rectangle. (2 marks)

Answer _____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**4** a. A regular octagon has sides of length 7 cm. Work out its perimeter.

b. Work out the perimeter of the pentagon in the diagram.

c. A regular hexagon has a perimeter of 45 cm. Work out the length of one side.

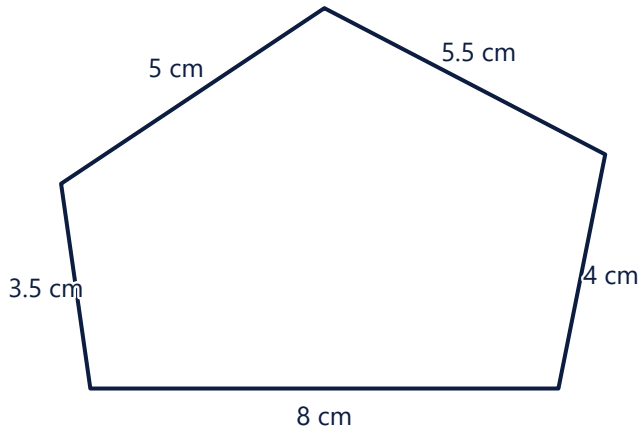


Diagram NOT accurately drawn

(3 marks)

Answer _____

**5** A triangle has base 12 cm and perpendicular height 5 cm.

Work out the area of the triangle.

(2 marks)

Answer _____


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**6** The diagram shows a parallelogram A and a trapezium B.

a. Work out the area of parallelogram A.

b. Work out the area of trapezium B.

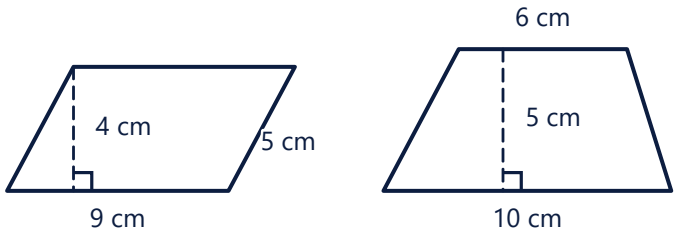


Diagram NOT accurately drawn

(4 marks)

Answer _____

**7** An L-shape is made by joining a rectangle 8 cm by 5 cm to a rectangle 4 cm by 3 cm. The two rectangles do not overlap.

Work out the total area of the L-shape.

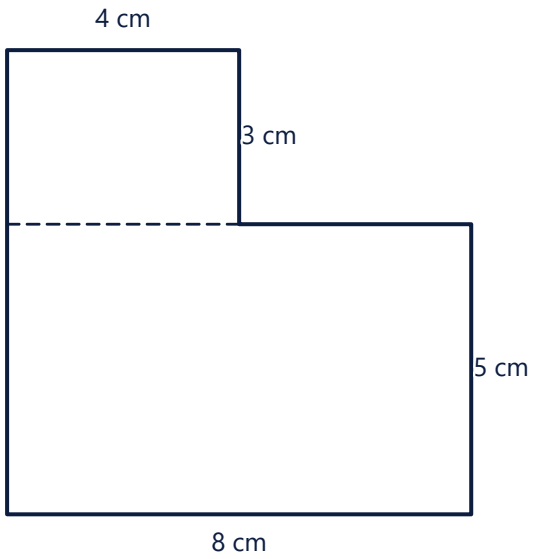


Diagram NOT accurately drawn

(2 marks)

Answer _____


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**8** An L-shape is made by removing a rectangle 3 cm by 2 cm from one corner of a rectangle 8 cm by 6 cm.

Work out the perimeter of the L-shape.

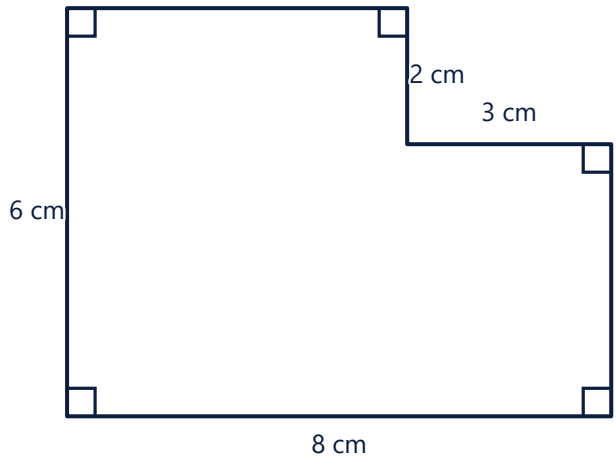


Diagram NOT accurately drawn

(3 marks)

Answer _____


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**9** The diagram shows a shape made from rectangles. All the corners are right angles.

a. Work out the perimeter of the shape.

b. Work out the area of the shape.

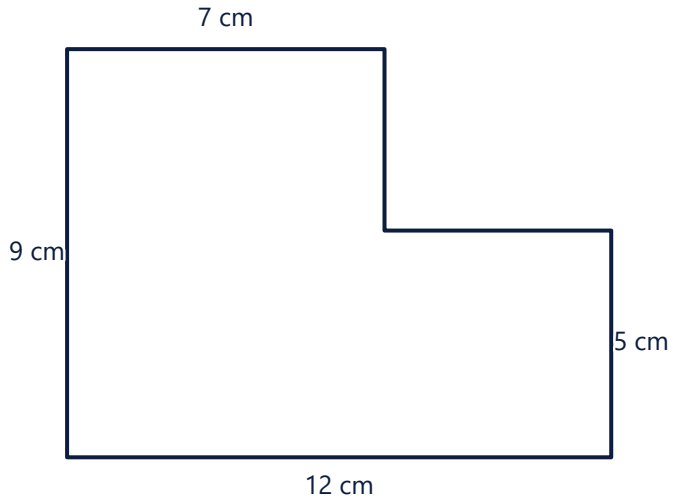


Diagram NOT accurately drawn

(4 marks)

Answer _____

**10** A rectangle is made from three identical squares placed side by side in a row.

The perimeter of the rectangle is 48 cm.

Work out the area of the rectangle.

(3 marks)

Answer _____

**11** Kemi's bedroom floor is a rectangle 4.5 m long and 3.2 m wide.

Carpet costs £12.50 per square metre. Carpet can only be bought in whole square metres.

Work out the cost of carpet for the floor.

(4 marks)

Answer _____


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**12** A school lawn is in the shape of a trapezium.

The parallel sides are 8 m and 14 m long. The perpendicular distance between them is 6 m.

The caretaker is going to sow grass seed on the whole lawn. One box of grass seed covers 20 $m^2$ and costs £8.75.

Work out the cost of the grass seed.

(4 marks)

Answer _____

End of questions | Total 36 marks


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