



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

1 A rectangle has length 9 cm and width 4 cm.

- Work out the area of the rectangle.
- Work out the perimeter of the rectangle.

(2 marks)

Answer _____

2 The diagram shows a parallelogram.

- Work out the area of the parallelogram.
- Work out the perimeter of the parallelogram.
- The parallelogram is cut along a diagonal into two identical triangles. Work out the area of one of the triangles.

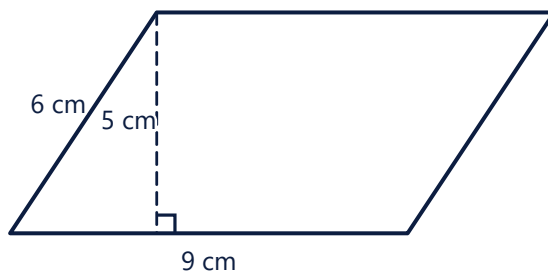


Diagram NOT accurately drawn

(3 marks)

Answer _____

3

- a. A rectangular noticeboard has an area of 84 cm^2 and a length of 12 cm. Work out the width of the noticeboard.
- b. A triangle has an area of 36 cm^2 and a base of 9 cm. Work out the perpendicular height of the triangle.

(3 marks)

Answer _____

4

- a. Change 4 m^2 to cm^2 .
- b. Change 2500 mm^2 to cm^2 .
- c. Arjun says, " 1 m^2 is the same as 100 cm^2 ." Explain why Arjun is wrong.

(3 marks)

Answer _____

5

- The diagram shows a trapezium.
- a. Work out the area of the trapezium.
- b. Work out the perimeter of the trapezium.

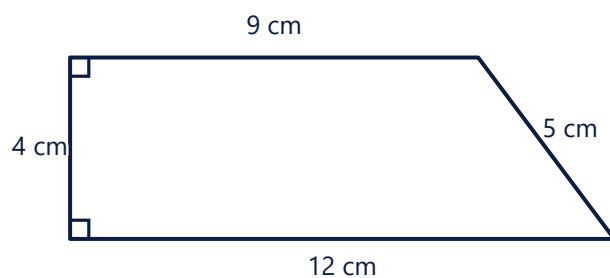


Diagram NOT accurately drawn

(3 marks)

Answer _____

- 6 A trapezium has parallel sides of length 8 cm and 14 cm.

The area of the trapezium is 66 cm^2 .

Work out the perpendicular height of the trapezium.

(2 marks)

Answer _____

- 7 The shape is made from a rectangle and a right-angled triangle.

a. Work out the perimeter of the shape.

b. Work out the area of the shape.

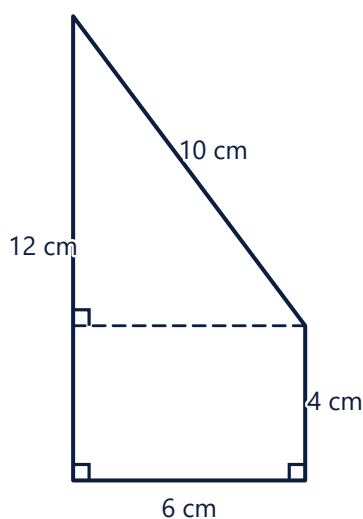


Diagram NOT accurately drawn

(4 marks)

Answer _____

- 8 A circle has radius 6 cm.

a. Work out the circumference of the circle. Give your answer correct to 1 decimal place.

b. Work out the area of the circle. Give your answer correct to 1 decimal place.

(3 marks)

Answer _____

9

A circle has diameter 18 cm.

- Work out the circumference of the circle. Give your answer in terms of π .
- Work out the area of the circle. Give your answer in terms of π .

(3 marks)

Answer _____

10

Shape A is a semicircle with diameter 10 cm.

Shape B is a quarter circle with radius 8 cm.

- Work out the perimeter of shape A. Give your answer correct to 1 decimal place.
- Work out the area of shape B. Give your answer in terms of π .

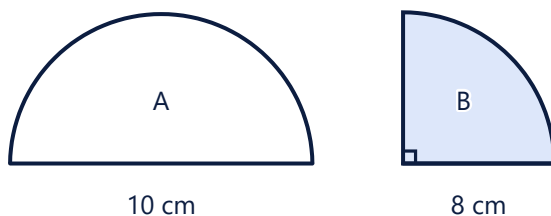


Diagram NOT accurately drawn

(4 marks)

Answer _____

11 A sector of a circle has radius 7.5 cm and angle 140° .

- a. Work out the arc length of the sector.
- b. Work out the area of the sector.

Give each answer correct to 3 significant figures.

(4 marks)

Answer _____

12 A sector of a circle has radius 6 cm and area $15\pi \text{ cm}^2$.

Work out the angle of the sector.

(2 marks)

Answer _____

End of questions | Total 36 marks