

Area and Perimeter

GCSE Mathematics • **Foundation Tier** • Grades 2–3 • Non-calculator

Name:

Class:

Total: / 50

Show all your working. Marks are given for correct method as well as the final answer.

1. Work out the area of a rectangle 9 cm by 4 cm. [1 mark]

Answer: cm^2

2. Work out the perimeter of a rectangle 9 cm by 4 cm. [2 marks]

Answer: cm

3. Work out the area of a triangle with base 10 cm and height 6 cm. [2 marks]

Answer: cm^2

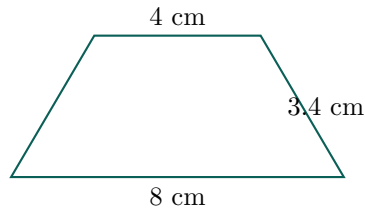
4. Work out the area of a parallelogram with base 7 cm and perpendicular height 5 cm. [2 marks]

Answer: cm^2

5. Work out the area of a square of side 12 cm. [1 mark]

Answer: cm^2

6. Work out the area of this trapezium. [3 marks]



Answer: cm^2

7. Work out the circumference of a circle of radius 5 cm. Give your answer in terms of π . [2 marks]

Answer: cm

8. Work out the area of a circle of radius 3 cm. Give your answer in terms of π . [2 marks]

Answer: cm^2

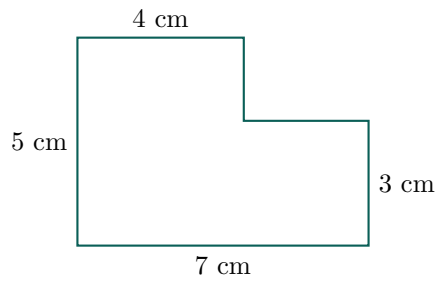
9. A circle has diameter 14 cm. Work out its circumference to 1 decimal place. [3 marks]

Answer: cm

10. A circle has radius 8 cm. Work out its area to 1 decimal place. [3 marks]

Answer: cm^2

11. Work out the area of this compound shape. [3 marks]



Answer: cm^2

12. A rectangle 10 cm by 6 cm has a 2 cm square cut out of it. Work out the remaining area. [3 marks]

Answer: cm^2

13. A square lawn of side 12 m has a circular pond of radius 3 m in it. Work out the grass area, in terms of π . [3 marks]

Answer: m^2

14. A rectangle has area 48 cm^2 and width 6 cm. Work out its length. [2 marks]

Answer: cm

15. A triangle has area 24 cm^2 and base 8 cm. Work out its height. [3 marks]

Answer: cm

16. A square has perimeter 36 cm. Work out its area. [3 marks]

Answer: cm^2

17. A circle has area $49\pi \text{ cm}^2$. Work out its radius. [2 marks]

Answer: cm

18. Convert 3 m^2 into cm^2 . [2 marks]

Answer:

19. Shape A is a 6×6 square. Shape B is a rectangle 9 cm by 4 cm. Which has the larger perimeter? Show working. [3 marks]

Answer:

20. A path 1 m wide runs all the way around a rectangular garden measuring 8 m by 5 m.

(a) Work out the area of the garden.

[2 marks]

(b) Work out the area of the path.

[3 marks]

Answer: