Perimeter and area - topic test

Name: _____ Date: _____

12 questions | 22 marks | 30 minutes

Begin with familiar ideas, then explain and apply your understanding. Show your working.

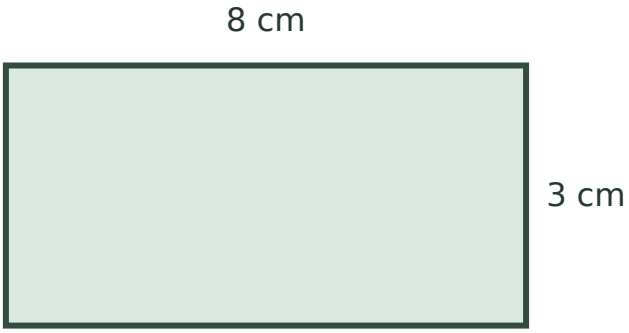
No calculator needed.

1. Which measure is needed for ribbon around a card: area or perimeter? [1 mark]

2. Which measure is needed to cover a table with paper? [1 mark]

3. Find the perimeter of a square with sides 4 cm. [1 mark]

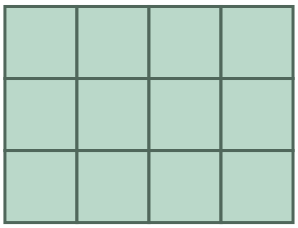
4. Find the perimeter of the supplied rectangle. [2 marks]



Not drawn to scale

5. Find the perimeter of a triangular garden with sides 6 m, 5 m and 4 m. [1 mark]

6. Find the area of the fully shaded grid. [2 marks]



Each square is 1 square unit

7. A region covers 5 whole squares and 6 half-squares. Find its area. [2 marks]

8. Mia measures a floor using square tiles. Some tiles overlap. Why is her count not a fair area measurement? [2 marks]

9. A square has a perimeter of 28 cm. Find its side length. [2 marks]

10. Two rectangles are 1 cm by 6 cm and 2 cm by 3 cm. Compare their areas. [2 marks]

11. Compare the perimeters of a 1 cm by 6 cm rectangle and a 2 cm by 3 cm rectangle. [3 marks]

12. A gardener needs fence and grass for a 5 m by 3 m rectangular garden. [3 marks]

(a) Find the length of fence needed around the whole garden. [1 mark]

(b) Find the area of grass needed to cover the garden. [2 marks]