

WA4MMGME1

Non-spatial measurement

Core + Challenge

Perimeter of Rectangles & Squares

I can calculate the perimeter of rectangles and squares by adding all side lengths or using a formula.

Name: _____ Date: _____ Score: / 53

Key idea

Perimeter is the total distance all the way around the outside of a shape.

For a **rectangle**: Perimeter = $2 \times (\text{length} + \text{width})$.

For a **square**: Perimeter = $4 \times \text{side length}$ (since all four sides are equal).

E.g. a rectangle 8cm by 5cm: $P = 2 \times (8 + 5) = \mathbf{26cm}$.

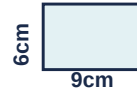
A**Fluency** *practise the skill***/16 marks**

Find the perimeter of each rectangle or square.

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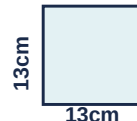
1. Rectangle 8cm × 5cm. Perimeter = ?



9. Rectangle 9cm × 6cm. Perimeter = ?



2. Square, side 6cm. Perimeter = ?



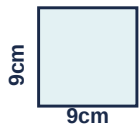
10. Square, side 13cm. Perimeter = ?



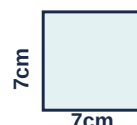
3. Rectangle 10cm × 3cm. Perimeter = ?



11. Rectangle 20cm × 5cm. Perimeter = ?



4. Square, side 9cm. Perimeter = ?



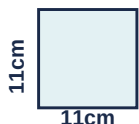
12. Square, side 7cm. Perimeter = ?



5. Rectangle 12cm × 4cm. Perimeter = ?



13. Rectangle 14cm × 8cm. Perimeter = ?



6. Square, side 11cm. Perimeter = ?



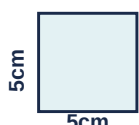
14. Square, side 10cm. Perimeter = ?



7. Rectangle 15cm × 2cm. Perimeter = ?



15. Rectangle 18cm × 3cm. Perimeter = ?



8. Square, side 5cm. Perimeter = ?



16. Square, side 12cm. Perimeter = ?

B

Core *apply the skill to problems*

/21 marks

1

A rectangular garden is 12m long and 7m wide. What is the perimeter of the garden?

[3 marks]

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Answer: _____

2

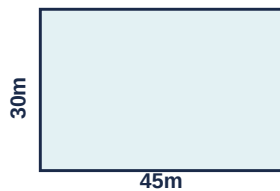
A square swimming pool cover has a perimeter of 36m. What is the length of one side of the cover? Show your working.

[4 marks]

Answer: _____

3

A rectangular field is 45m long and 30m wide. A farmer wants to put a fence around the entire field. How many metres of fencing are needed?

[3 marks]

Answer: _____

4

A rectangular picture frame is 1.2m long and 0.8m wide. Ribbon costs \$2 per metre to go around the outside. How much will the ribbon cost in total?

[4 marks]

Answer: _____

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5

A square courtyard has sides of 15m. A fence post is placed every 5m around the perimeter (starting and ending at the same corner). How many posts are needed in total?

[3 marks]

Answer: _____

6

A rectangular room is 6m long and 4m wide. Priya wants to put skirting board around the room, except for a 1m wide doorway where no skirting is needed. How many metres of skirting board does she need?

[4 marks]

Answer: _____

C

Reasoning *explain, justify and check*

/9 marks

1

Explain, in your own words, what 'perimeter' means and how you would find it for any shape.

[2 marks]

2

A rectangle has a length of 10cm and a width of 4cm. A student says the perimeter is $10 + 4 = 14$ cm. Explain the student's mistake and give the correct perimeter.

[2 marks]

3

Explain how you can find the perimeter of a square if you only know the length of one side.

[2 marks]

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4

A rectangle and a square both have a perimeter of 24cm. A student says they must be the same shape because they have the same perimeter. Is the student correct? Explain and give an example to support your answer.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

A rectangle has a perimeter of 40cm. Its length is 12cm. What is its width?

[2 marks]

Answer: _____

2

A square has the same perimeter as a rectangle that is 18cm long and 6cm wide. What is the side length of the square?

[2 marks]

Answer: _____

3

A rectangular vegetable patch is twice as long as it is wide. If its perimeter is 36m, what are its length and width?

[3 marks]

Answer: _____

How did I go?

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Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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