MeerkatSkool

FREE PRACTICE SHEET

Extra Maths Class

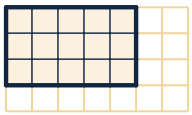
Free Extra Maths Class · Grade 5

Perimeter, area and volume

Name: _____

Remember: Perimeter is the length around (cm), **area** is how many squares fit on top (cm²), and **volume** is how many cubes fit inside (cm³). **Why is area length × width?** Every row has as many squares as the length, and there are as many rows as the width.

1 Each square is 1 cm by 1 cm. What is the **perimeter** of the rectangle?



2 What is the **area** of the same rectangle?

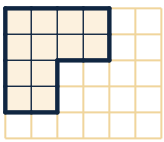
3 What is the perimeter of this rectangle?



4 What is the area of the same rectangle?

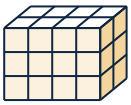
5 A square has sides of 7 cm each. What is its perimeter?

6 Each square is 1 cm². What is the area of the L-shape?



7 What is the perimeter of the L-shape?

8 The box is built with 1 cm cubes. What is the volume?



9 A box is 7 cm long, 3 cm wide and 2 cm high. What is the volume?

10 Perimeter, area or volume? The fence around a garden.

11 Perimeter, area or volume? The carpet on a bedroom floor.

12 A vegetable garden is 12 m long and 8 m wide. How many metres of wire are needed for a fence around the garden?

13 A rectangle has an area of 48 cm² and a length of 8 cm. What is its **perimeter**?

14 A floor is 4 m by 3 m. Tiles are 50 cm by 50 cm, so 4 tiles cover 1 m². How many tiles are needed?

15 A box is 6 cm long and 5 cm wide. Its volume is 90 cm³. How high is the box?

I got ___ out of 15 ★ ★ ★

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Free Extra Maths Class · Grade 5 · Memorandum

Memorandum: Perimeter, area and volume

1. **16 cm**
   5 + 3 + 5 + 3 = 16
2. **15 cm²**
   5 rows of 3: 5 × 3 = 15
3. **26 cm**
   2 × (9 + 4) = 26
4. **36 cm²**
   9 × 4 = 36
5. **28 cm**
   4 × 7 = 28
6. **12 cm²**
   Count the squares: 4 × 2 + 2 × 2 = 12
7. **16 cm**
   Count the outside edges of the squares: 16
8. **24 cm³**
   4 × 2 = 8 cubes in one layer; 3 layers: 8 × 3 = 24
9. **42 cm³**
   7 × 3 × 2 = 42
10. **perimeter**
    A length around the outside (m)
11. **area**
    It covers the floor (m²)
12. **40 m**
    2 × (12 + 8) = 40
13. **28 cm**
    Width: 48 ÷ 8 = 6; perimeter: 2 × (8 + 6) = 28
14. **48 tiles**
    4 × 3 = 12 m²; 12 × 4 = 48
15. **3 cm**
    One layer: 6 × 5 = 30 cm³; 90 ÷ 30 = 3