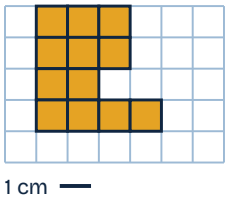
Perimeter, area and volume

Name: _____ Date: _____

Remember: **Perimeter** is the distance around (cm); **area** is how many squares cover it (cm²); **volume** is how many cubes fill it (cm³). That is why each has a different unit.

1. Each square is 1 cm². What is the area of the yellow shape?



Answer: _____

2. What is the perimeter of the same yellow shape?

Answer: _____

3. A rectangle is 8 cm long and 5 cm wide. Calculate its perimeter.

Answer: _____

4. Calculate the area of the same rectangle.

Answer: _____

5. The perimeter of a rectangle is 30 cm. The length is 9 cm. How wide is it?

Answer: _____

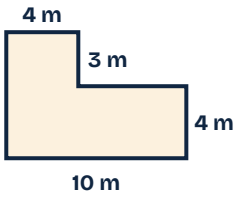
6. The area of a rectangle is 72 m². The width is 6 m. How long is it?

Answer: _____

7. The perimeter of a square is 48 cm. Calculate the length of one side and the area.

Answer: _____

8. The floor plan is made of two rectangles. Calculate the area of the whole floor.



Answer: _____

9. A garden is 12 m long and 7 m wide. Fencing costs R45 per metre. How much does fencing around the whole garden cost?

Answer: _____

10. A box is 5 cm long, 4 cm wide and 3 cm high. Calculate the volume.

Answer: _____

11. How many 1 cm cubes fit into a box of 6 cm × 4 cm × 2 cm?

Answer: _____

12. A rectangle of 6 cm by 4 cm and a square with sides of 5 cm have the same perimeter. Which one has the bigger area, and by how much?

Answer: _____

13. A fish tank is 50 cm long, 30 cm wide and 40 cm high. What is its volume in cm³, and how many litres of water does it hold? (1 000 cm³ = 1 litre)

Answer: _____

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I got _____ out of 13 ⭐⭐⭐

Memorandum · Perimeter, area and volume

1. **12 cm²**
   count the squares: 12

2. **18 cm**
   count the outside edges: 18

3. **26 cm**
   2 × (8 + 5) = 26

4. **40 cm²**
   8 × 5 = 40

5. **6 cm**
   30 ÷ 2 = 15; 15 − 9 = 6

6. **12 m**
   72 ÷ 6 = 12

7. **side 12 cm; area 144 cm²**
   48 ÷ 4 = 12; 12 × 12 = 144

8. **52 m²**
   10 × 4 = 40; 4 × 3 = 12; 40 + 12 = 52

9. **R1 710**
   2 × (12 + 7) = 38 m; 38 × R45 = R1 710

10. **60 cm³**
    5 × 4 × 3 = 60

11. **48**
    6 × 4 = 24 in one layer; 2 layers: 24 × 2 = 48

12. **the square, by 1 cm²**
    both 20 cm perimeter; 24 cm² and 25 cm²

13. **60 000 cm³; 60 litres**
    50 × 30 × 40 = 60 000; 60 000 ÷ 1 000 = 60

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