Year 4 maths: Area of rectangles (Medium)

Maths · Measurement
Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. A rectangle is 8 cm long and 6 cm wide. What is its area?

Answer: ☐ cm²

Working:

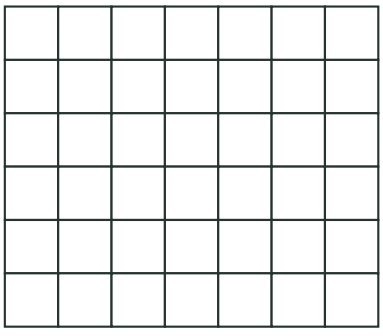
2. A square has sides of 7 m. What is its area?

Answer: ☐ m²

Working:

3. How many squares cover this rectangle?

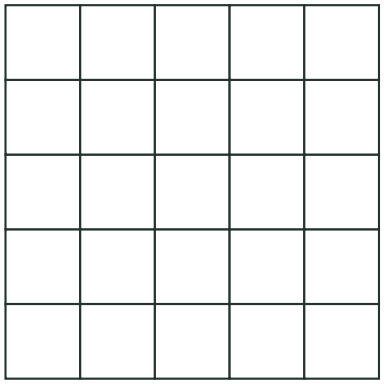
Answer: ☐ squares



Working:

4. This square grid has an area of 75 cm². All the small squares are the same size. What is the area of one small square?

Circle one answer.

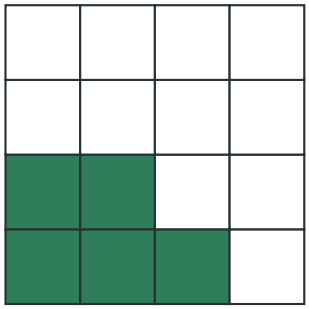


○ **A** 75 cm² ○ **B** 15 cm² ○ **C** 3 cm²

○ **D** 1 cm²

5. The whole grid has an area of 48 cm². All the small squares are the same size. What is the area of the shaded part?

Answer: _____ cm²



Working:

6. A vegetable garden is 12 m long and 5 m wide. What is its area?

Answer: _____ m²

Working:

7. Shape A covers 3 more squares than shape B. Shape B is 2 rows of 4 squares. How many squares does shape A cover?

Answer: _____ squares

Working:

8. A rectangle is 6 cm wide. Its perimeter is 28 cm. What is its area?

Answer: ☐ cm²

Working:

9. Two circles, each with a radius of 4 cm, fit exactly side by side in a rectangle. How long is the rectangle?

Answer: ☐ cm

Working:

10. This strip is made of 6 equal squares. The 2 shaded squares have an area of 10 cm². What is the area of the part that is not shaded?

Circle one answer.



○ **A** 20 cm² ○ **B** 5 cm² ○ **C** 4 cm²

○ **D** 30 cm²

Answer key

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1. 48 cm²

6 × 8 = 48 cm².

2. 49 m²

7 × 7 = 49 m². (28 m is the distance around.)

3. 42 squares

6 rows of 7: 6 × 7 = 42 squares.

4. C — 3 cm²

There are 5 × 5 = 25 small squares. 75 ÷ 25 = 3 cm² each.

5. 15 cm²

16 squares make 48 cm², so each square is 48 ÷ 16 = 3 cm². 5 shaded squares: 5 × 3 = 15 cm².

6. 60 m²

5 × 12 = 60 m².

7. 11 squares

B: 2 × 4 = 8 squares. A: 8 + 3 = 11 squares.

8. 48 cm²

Halfway round is 14 cm, so the length is 14 − 6 = 8 cm. Area: 6 × 8 = 48 cm².

9. 16 cm

Each circle is 4 + 4 = 8 cm across. Two circles: 8 + 8 = 16 cm.

10. A — 20 cm²

2 squares make 10 cm², so each is 5 cm². 4 squares are not shaded: 4 × 5 = 20 cm².