Year 4 maths: Perimeter of shapes made from rectangles (Easy)

Maths · Measurement
Level: Easy

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 mirror frame is 12 cm by 10 cm. The frame is 1 cm wide all the way round. What size is the mirror?

Circle one answer.

○ **A** 12 cm by 10 cm ○ **B** 14 cm by 12 cm ○ **C** 10 cm by 8 cm ○ **D** 11 cm by 9 cm

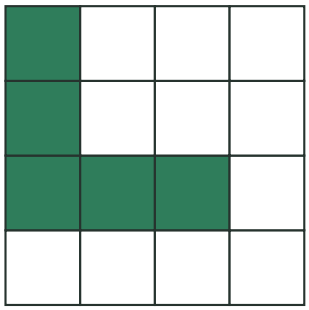
2. Which rectangle has a perimeter of 12 cm?

Circle one answer.

○ **A** 4 cm by 2 cm ○ **B** 6 cm by 2 cm ○ **C** 10 cm by 2 cm

3. Each small square is 1 cm long. What is the perimeter of the shaded shape?

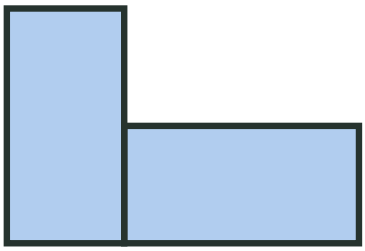
Answer: ____ cm



Working:

4. Two cards, each 4 cm long and 2 cm wide, make this L shape. What is its perimeter?

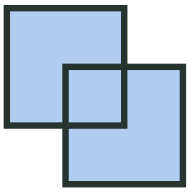
Answer: ____ cm



Working:

5. Two squares with 2 cm sides overlap. The second is moved 1 cm across and 1 cm down, so the outline fits a box 3 cm by 3 cm. What is the perimeter of the outline?

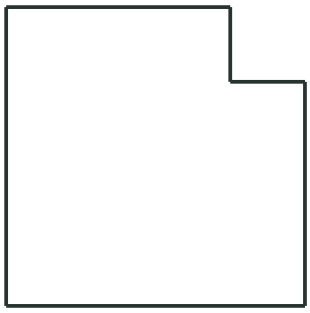
Answer: ____ cm



Working:

6. Zara cuts a 1 cm square from one corner of a 4 cm square. Is the perimeter of the new shape less, the same or more than the square's?

Circle one answer.



○ **A** The same ○ **B** Less ○ **C** More

7. A 12 cm wire is bent into a square. How long is each side?

Circle one answer.

○ **A** 4 cm ○ **B** 12 cm ○ **C** 3 cm ○ **D** 6 cm

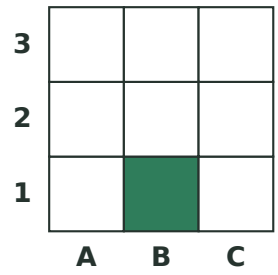
8. Evie has a 20 cm piece of wire. She cuts off 8 cm. How much wire is left?

Answer: ____ cm

Working:

9. Each small square is 1 cm. The shaded square is cut out. Is the perimeter of the shape that is left less, the same or more than before?

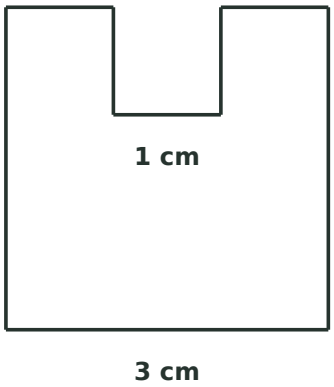
Circle one answer.



○ **A** More ○ **B** The same ○ **C** Less

10. This is a 3 cm square with a 1 cm notch cut out of the middle of its top edge. Its sides are 1, 1, 1, 1, 1, 3, 3 and 3 cm. What is the perimeter?

Answer: ☐ cm



Working:

Answer key

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1. C — 10 cm by 8 cm

12 − 1 − 1 = 10 cm and 10 − 1 − 1 = 8 cm.

2. A — 4 cm by 2 cm

4 + 2 + 4 + 2 = 12 cm. (6 × 2 = 12 is an area, and 10 + 2 = 12 is only halfway round.)

3. 12 cm

Walk round the edge: up 3, across 1, down 2, across 2, down 1, back 3. 3 + 1 + 2 + 2 + 1 + 3 = 12 cm.

4. 20 cm

Round the outside: 2 + 2 + 4 + 2 + 6 + 4 = 20 cm. (It goes as far round as a 6 cm by 4 cm box.)

5. 12 cm

3 + 3 + 3 + 3 = 12 cm.

6. A — The same

The cut takes away 1 cm from the top and 1 cm from the side, but it makes two new 1 cm edges. So the perimeter stays the same.

7. C — 3 cm

A square has 4 equal sides. 12 ÷ 4 = 3 cm.

8. 12 cm

20 − 8 = 12 cm.

9. A — More

The shaded square is on the edge but not at a corner. Cutting it out loses 1 cm of edge but makes 3 new 1 cm edges, so the perimeter is 2 cm more.

10. 14 cm

1 + 1 + 1 + 1 + 1 + 3 + 3 + 3 = 14 cm. That is 2 cm more than the square's 12 cm.