

Mathematics

Describing perimeters

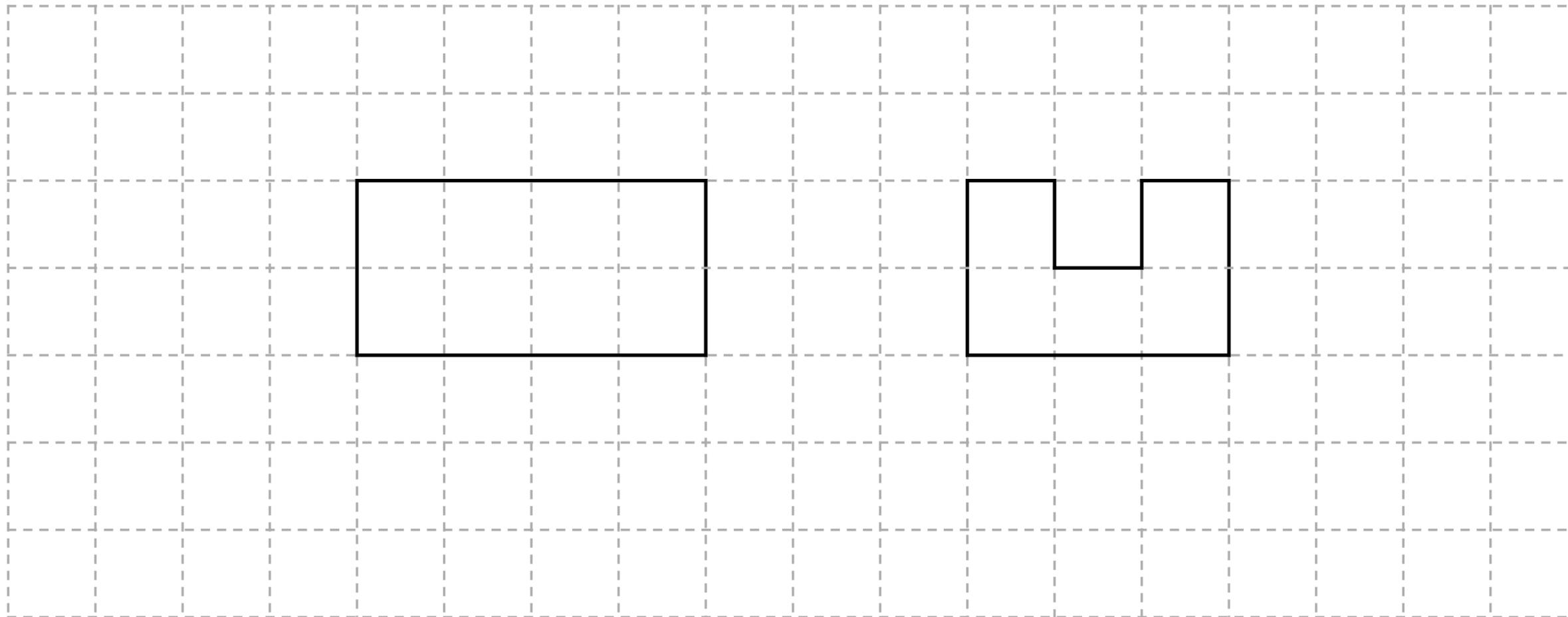
Lesson 1 of 8

Miss Kidd-Rossiter



Try this

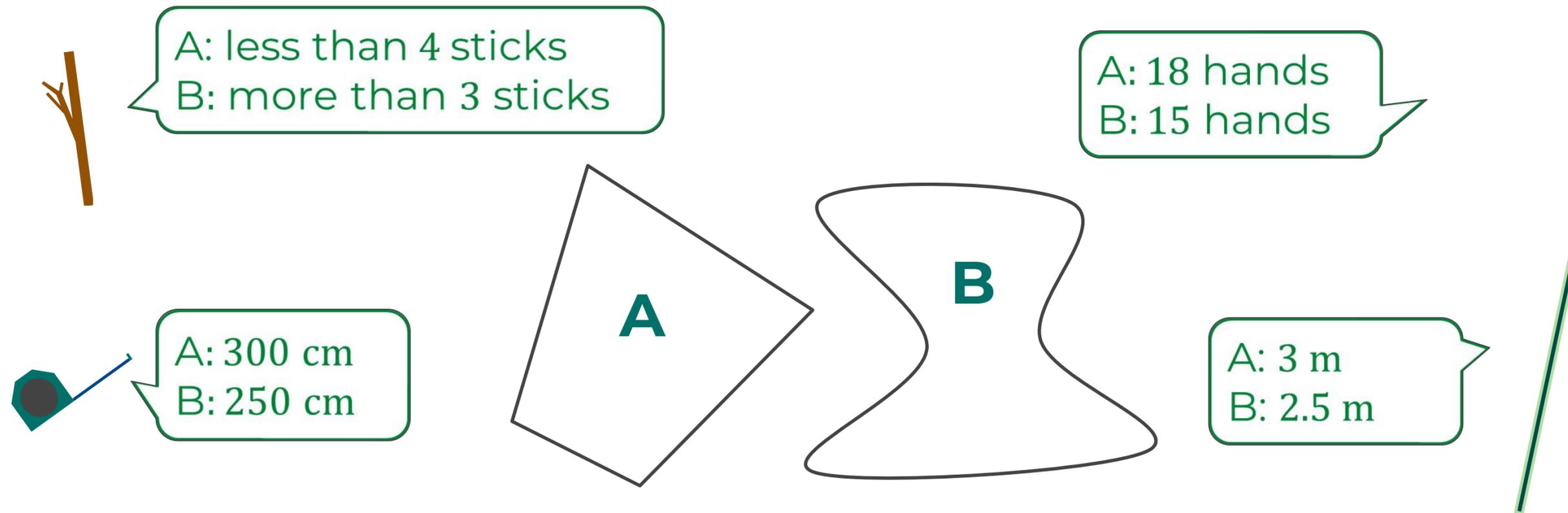
How many different shapes can you draw on a centimeter square grid that have a perimeter of 12 cm?



Connect

The **perimeter** of a shape is the length of its boundary.

The students are comparing the perimeters of A and B.



What's the same/different about their responses?



Connect

Five squares and four isosceles triangles were combined.

Link the calculations to the perimeter:

$$8 \times (2 + 3) \text{ cm}$$

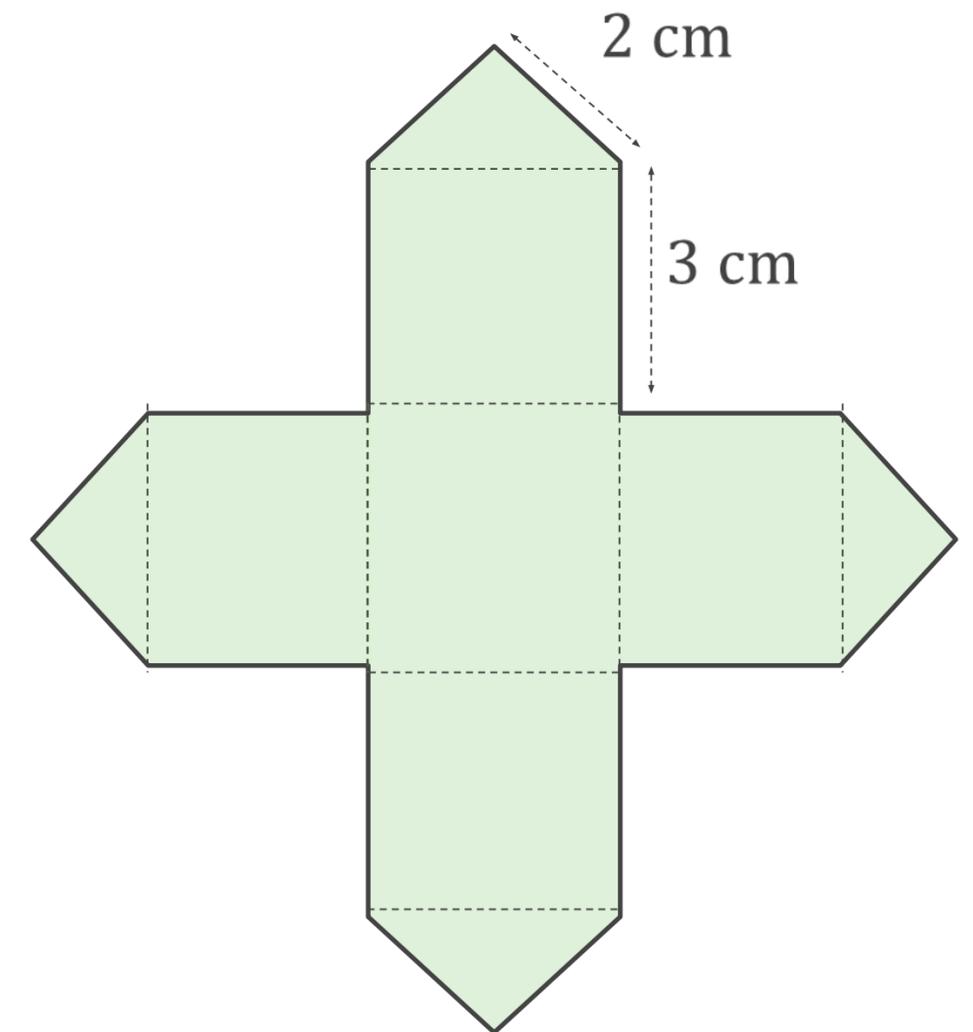
$$4 \times (2 + 2 + 3 + 3) \text{ cm}$$

Draw shapes for the following perimeter calculations:

$$3 \times 6 \text{ cm}$$

$$3 \times 5 + 7 \text{ cm}$$

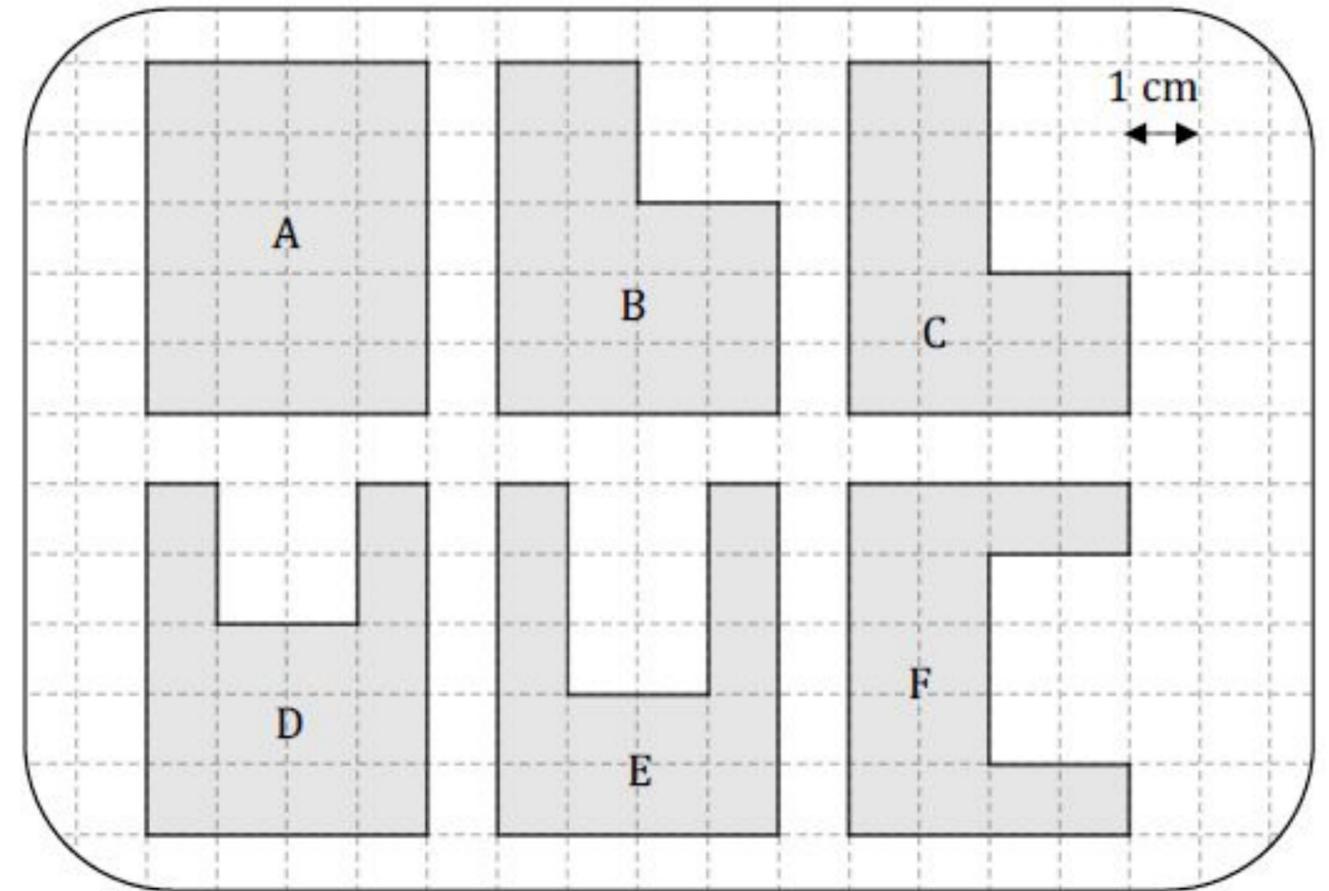
$$2 \times (4 + 5) \text{ cm}$$



Independent task

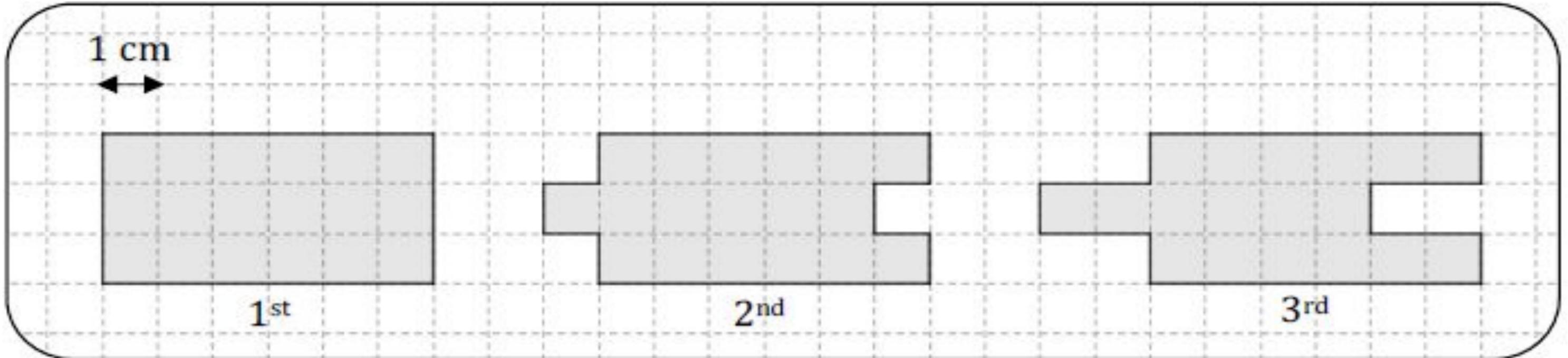
1. The shapes in the diagram to the right are drawn on a 1 cm grid. Write down the perimeters of the shapes.
2. What is the same or different about the shapes in Q1?

Hint: Compare the perimeters of the shapes in the top row to the bottom row.



Independent task

A shape pattern is created by 'cutting' out a single 1 cm square and 'pasting' it as shown:



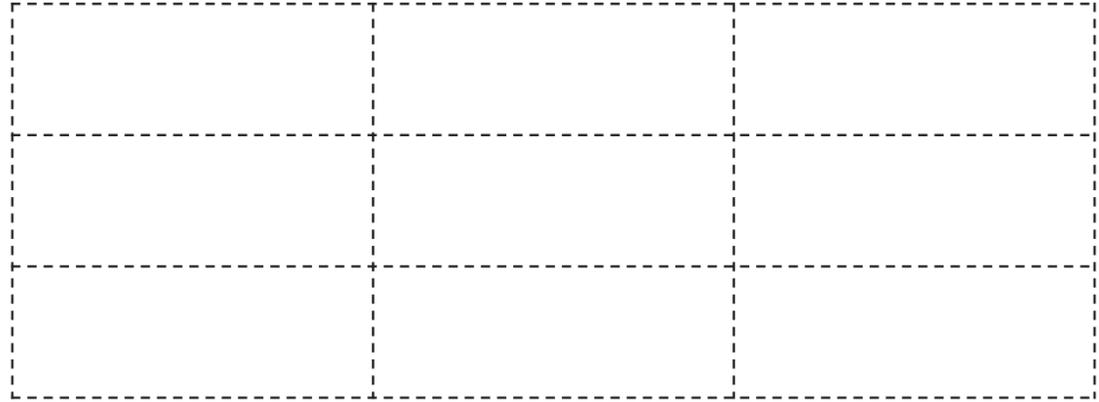
- What are the perimeters of the shapes drawn above?
- What will the perimeter of the next shape in the pattern be?
- What will the perimeter of the **sixth** shape in the pattern be?



Explore

The grid below uses nine identical rectangles: a m b m 

What is the perimeter of this shape?



Explore the effect on the perimeter when rectangles are removed:

