Maths Shed

Year 3

Spring Block 4: Length and Perimeter

Lesson 7: To be able to measure perimeter

To be able to measure perimeter

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Success criteria:

✓ I can explore the concept of perimeter and how the perimeter of 2-D shapes and perimeter boundaries are measured

✓ I can explain my reasoning when exploring the concept of perimeter and how the perimeter of 2-D shapes and perimeter boundaries are measured

To be able to measure perimeter

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Starter:

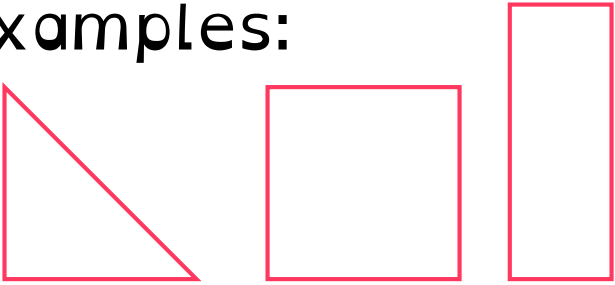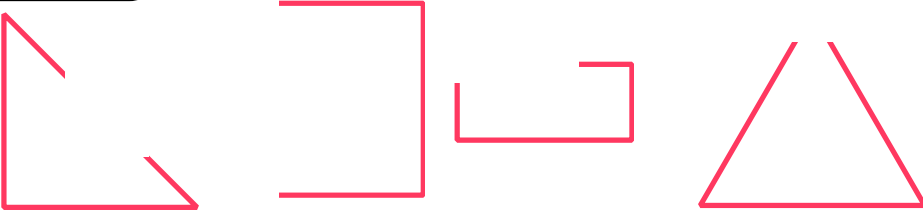Find the word "perimeter" in the dictionary. Then, complete the Frayer model below.

definition:	characteristics:
examples:	non-examples:

perimeter

To be able to measure perimeter

Starter:

Find the word "perimeter" in the dictionary. Then, complete the Frayer model below.

definition:
The perimeter of a shape, an object or an area of land is **the whole** of its outer edge or boundary.

characteristics:
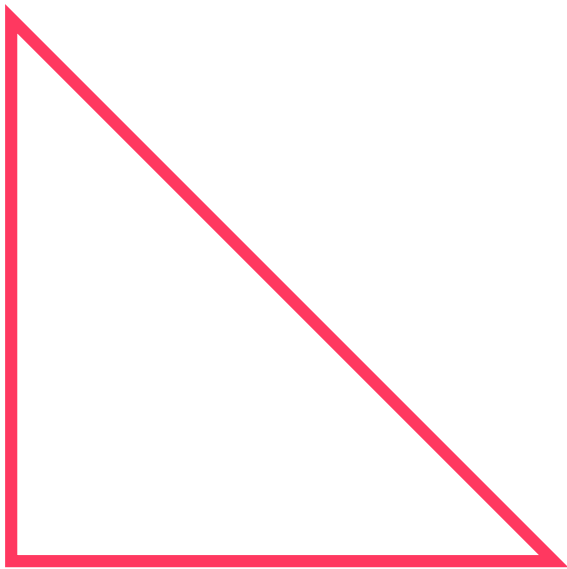The complete outer limit or line of the inside of an object or shape.

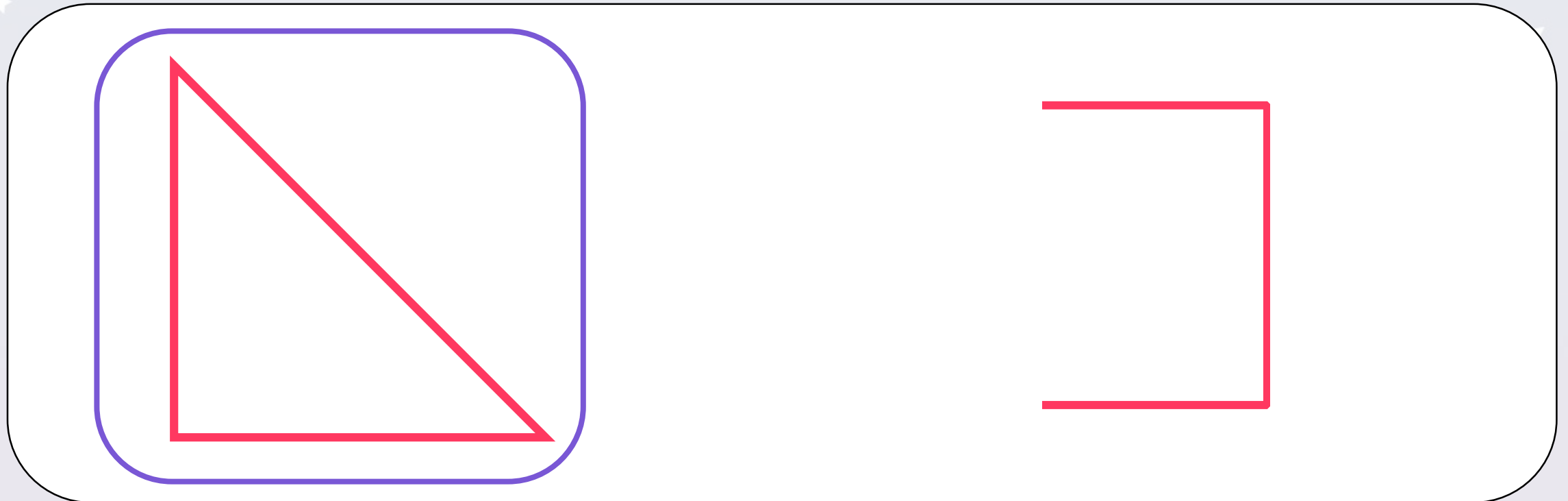**perimeter**

examples:

non-examples:

To be able to measure perimeter

Talking Time:

Circle the shape for which the perimeter can be measured.

To be able to measure perimeter

Talking Time:

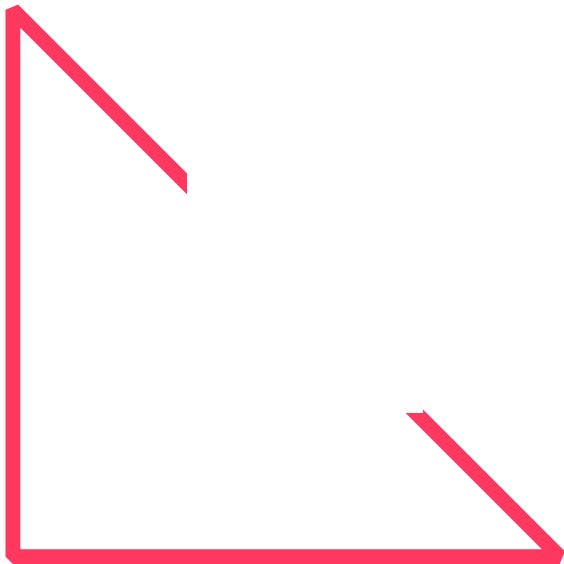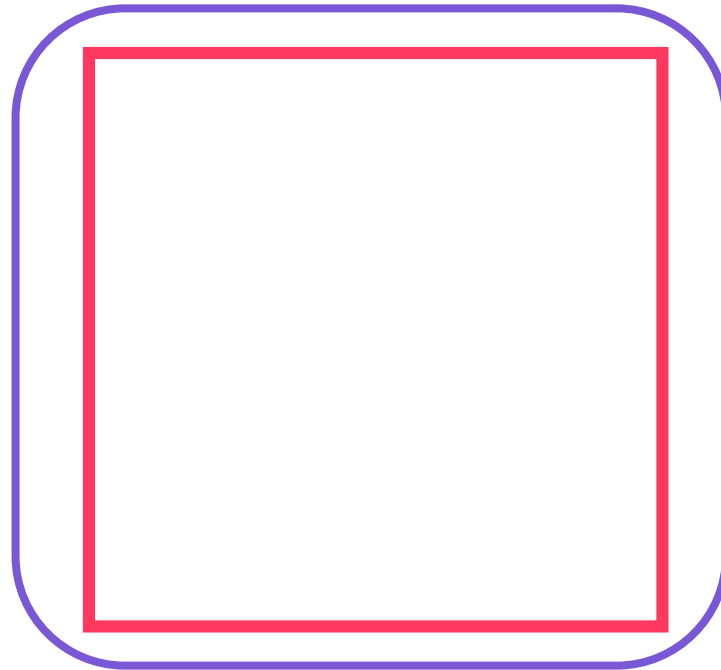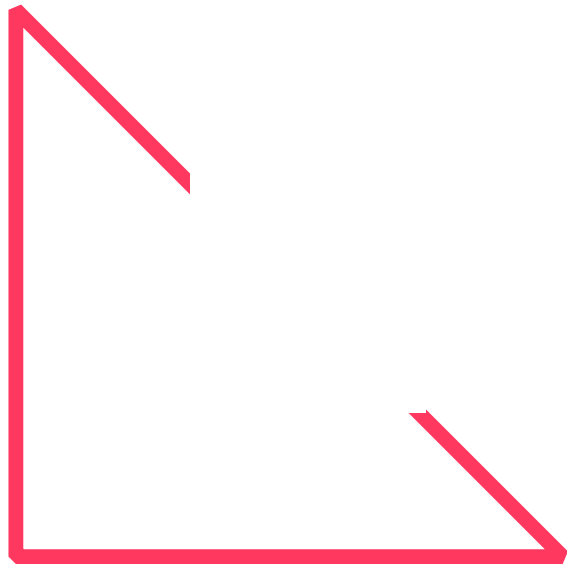Circle the shape for which the perimeter can be measured.

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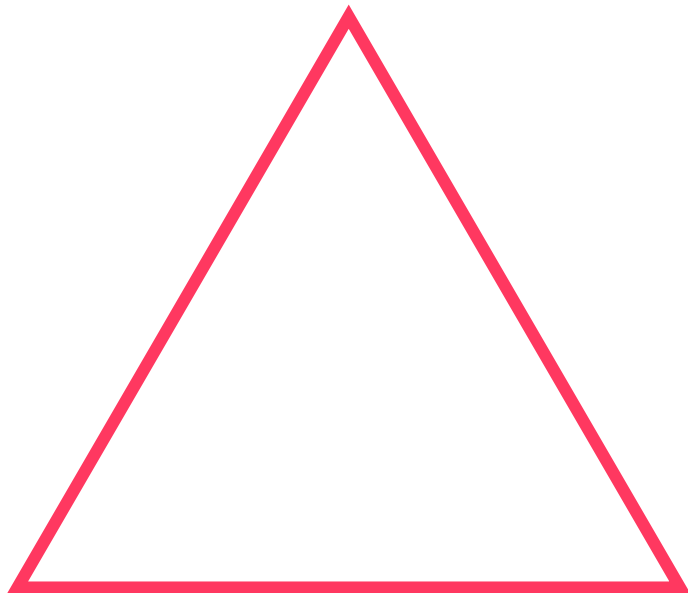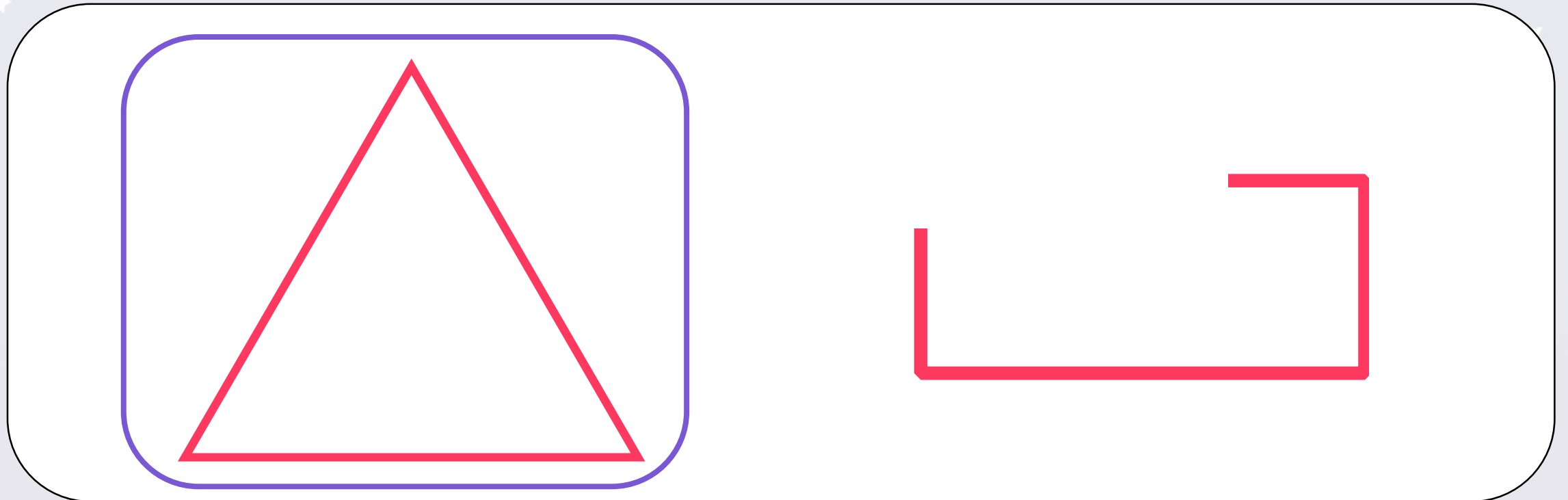Circle the shape for which the perimeter can be measured.

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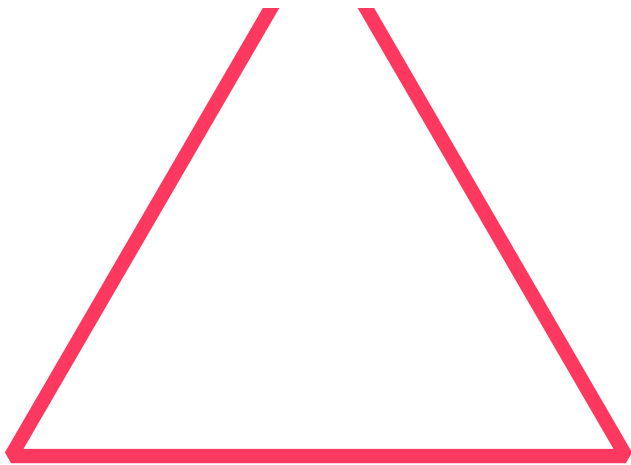Circle the shape for which the perimeter can be measured.

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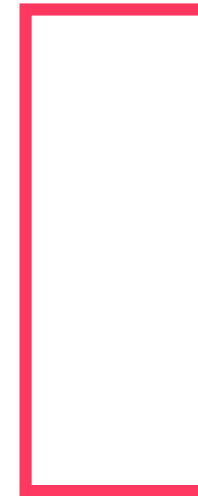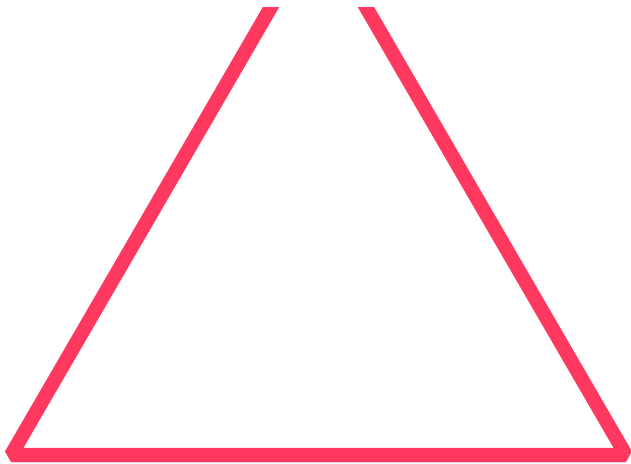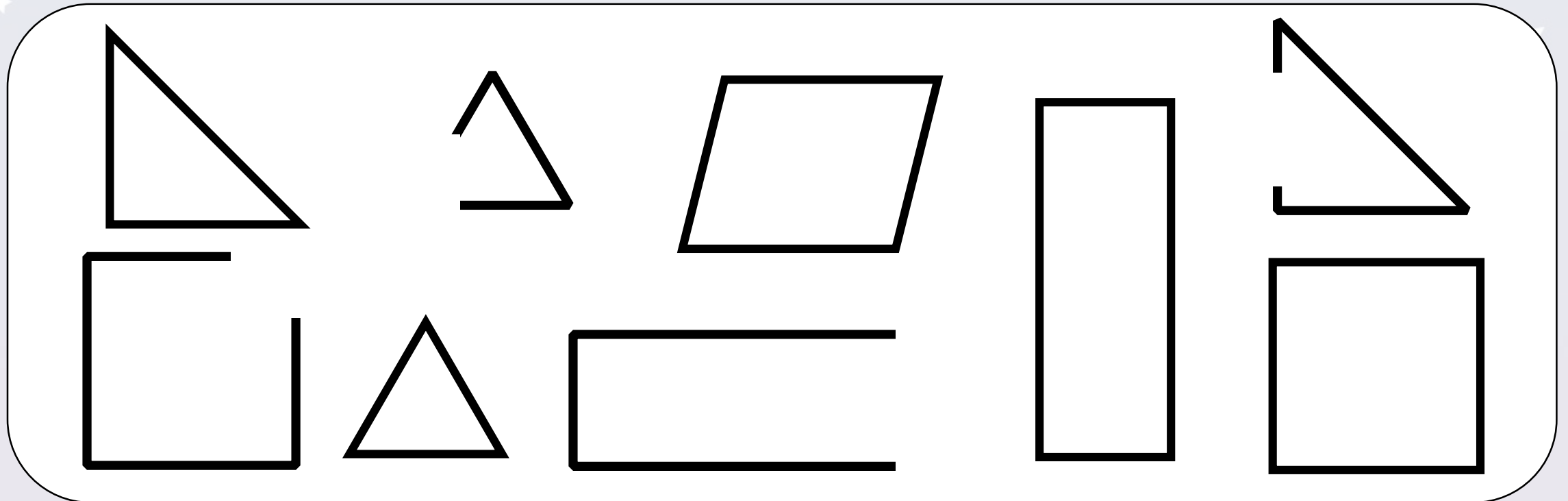Circle the shape for which the perimeter can be measured.

To be able to measure perimeter

Activity 1:

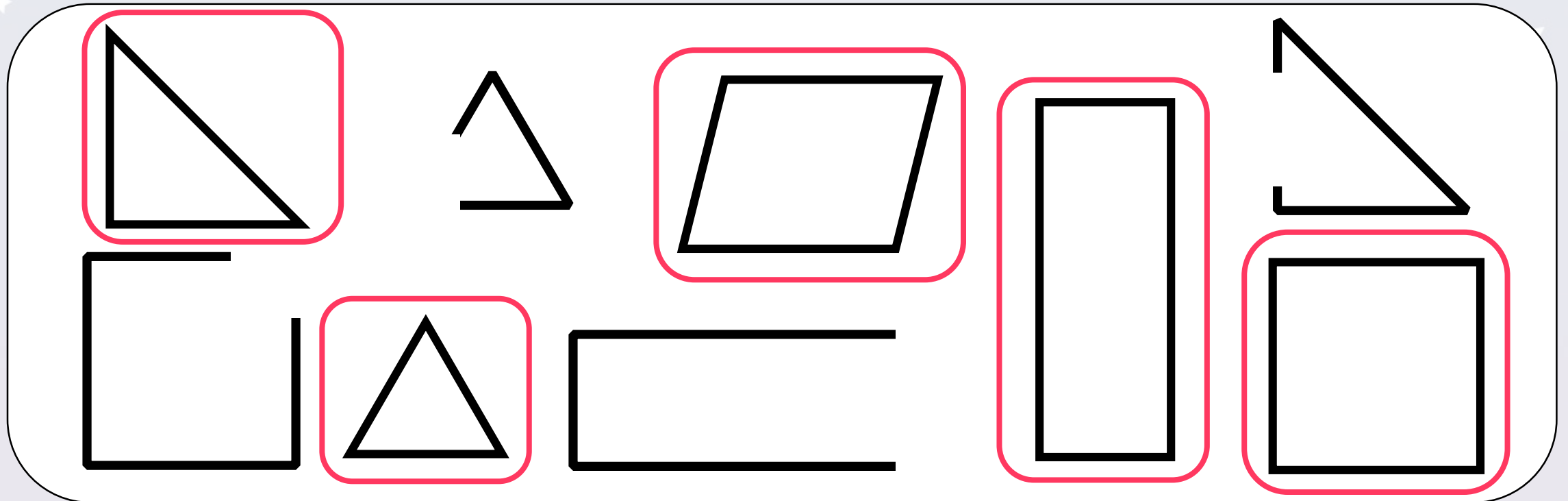Circle the shapes for which the perimeter can be measured.

To be able to measure perimeter

Activity 1:

Circle the shapes for which the perimeter can be measured.
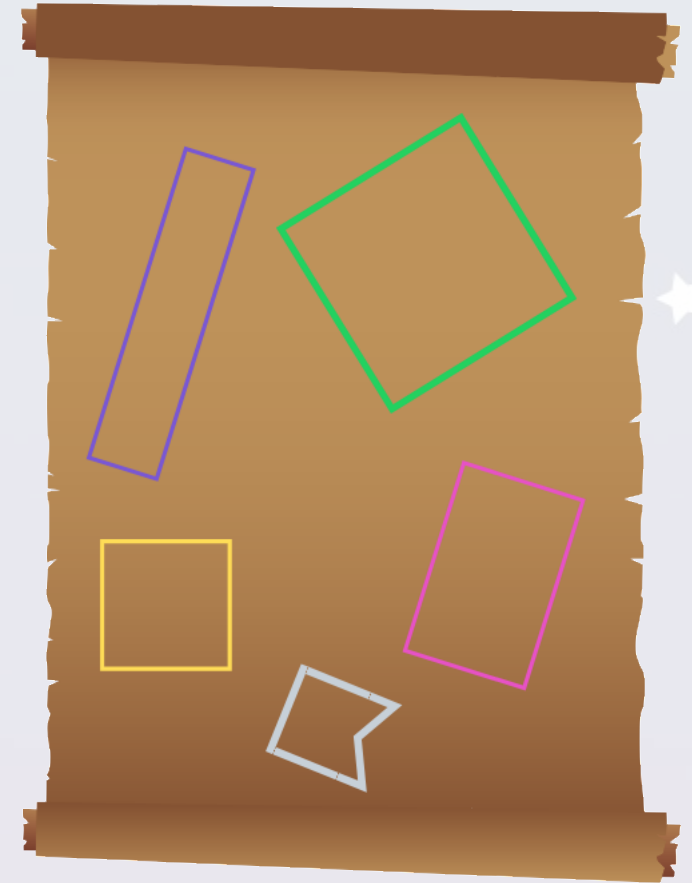
To be able to measure perimeter

Activity 2:

Draw a selection of 2-D shapes with various lengths and orientations on to poster paper.

Children to measure each perimeter to the nearest cm.

To be able to measure perimeter

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Draw a selection of 2-D shapes with various lengths and orientations on to poster paper.

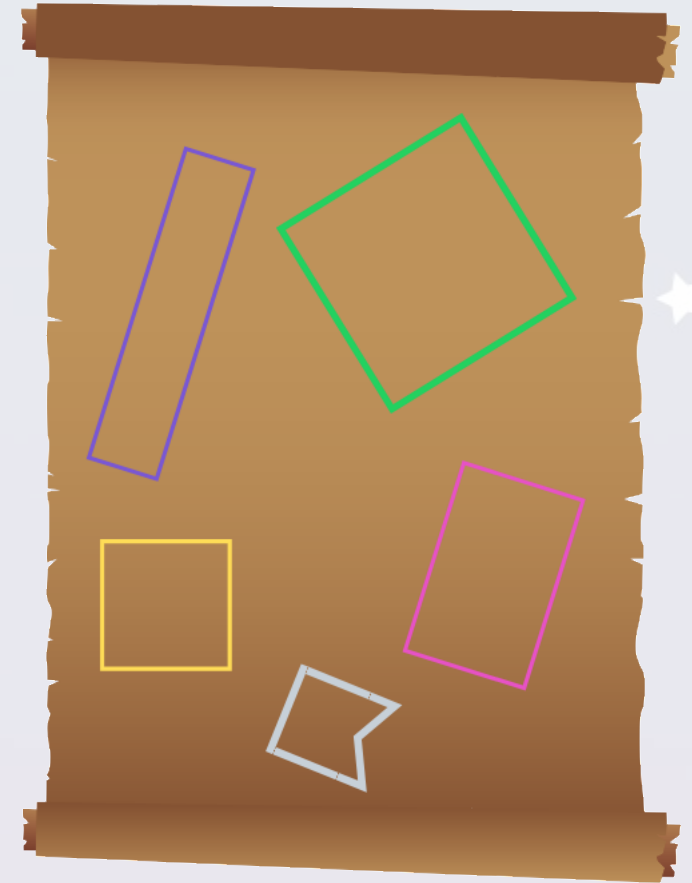Children to measure each perimeter to the nearest cm.
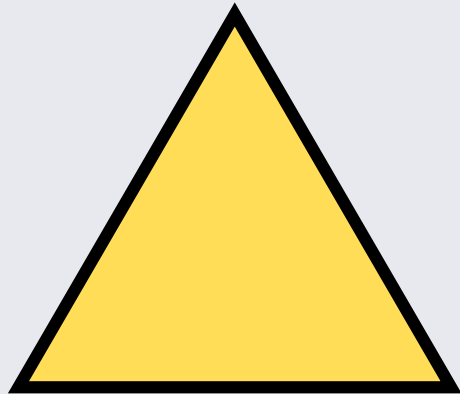
Teacher / peer assessment

To be able to measure perimeter

Activity 3:

Ruth is measuring the perimeter an equilateral triangle.

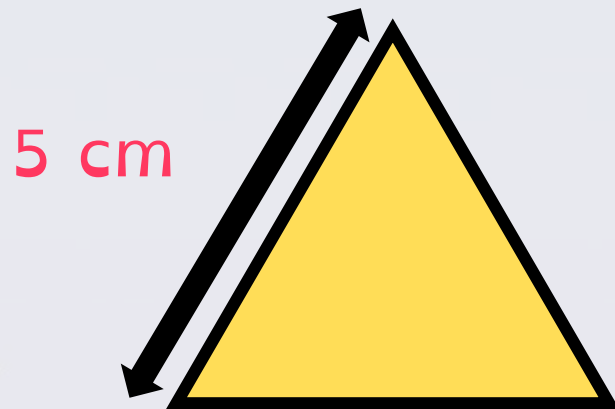She says, "I only need to measure one side."

Do you agree?
Explain your answer.

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Activity 3:

Ruth is measuring the perimeter an equilateral triangle.

5 cm

She says, "I only need to measure one side."
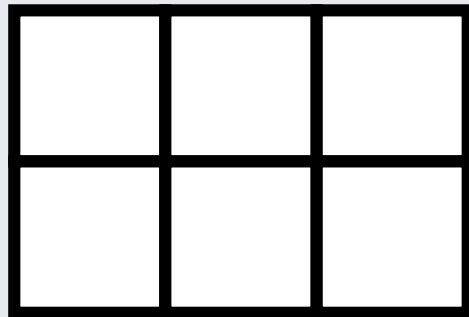
Yes, as all of the sides are the same length, you can add the same length another two times (or multiply it by 3) to get the result. For example, 5 + 5 + 5 = 15 cm.

To be able to measure perimeter

Talking Time:

Each of the squares has a side length of 1 cm.
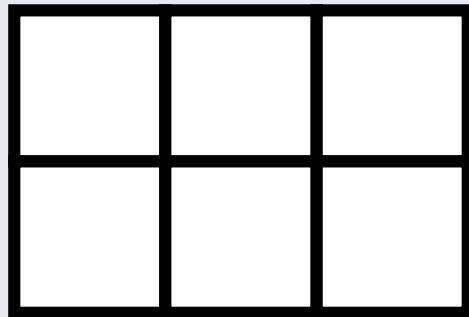What is the perimeter of the shape below

Explain your answer.

To be able to measure perimeter

Talking Time:

Each of the squares has a side length of 1 cm.
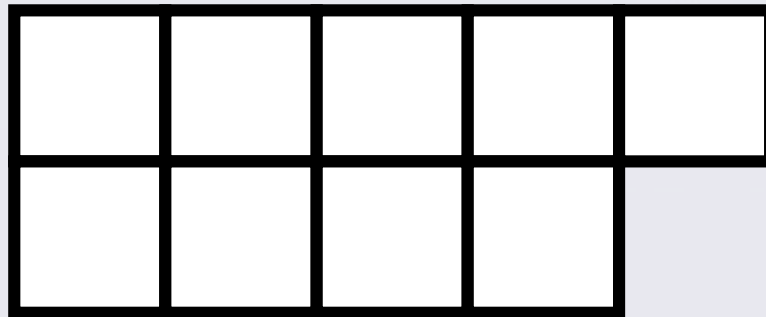What is the perimeter of the shape below

The shape has a perimeter of 10 cm, because the top and bottom edges are each 3 cm and the left-hand and right-hand edges are each 2 cm.

To be able to measure perimeter

Talking Time:

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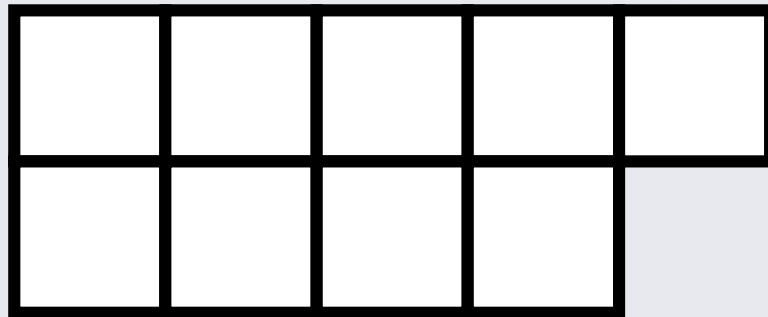What is the perimeter of the shape below

Explain your answer.

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Talking Time:

Each of the squares has a side length of 1 cm.
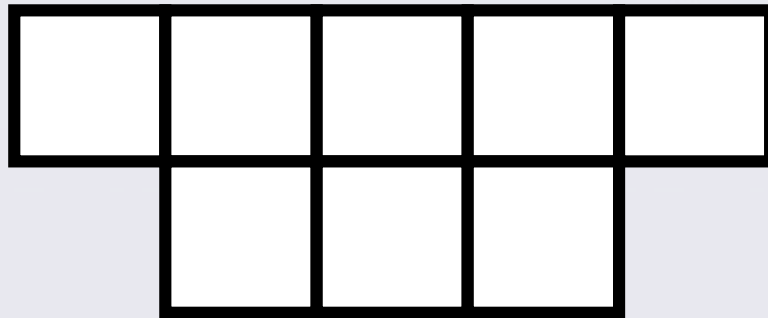What is the perimeter of the shape below

The shape has a perimeter of 14 cm, because the top edge is 5 cm, the left-hand edge is 2 cm, the bottom edge is 4 cm and the right hand is made up of three 1 cm measurements.

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Activity 4:

Each of the squares has a side length of 1 cm.
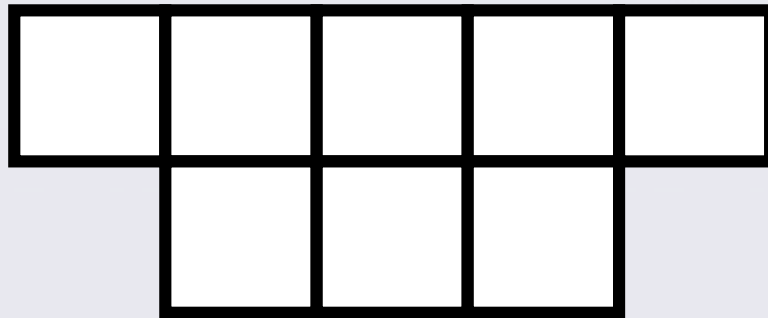What is the perimeter of the shape below

Explain your answer.

Activity 4:

Each of the squares has a side length of 1 cm.
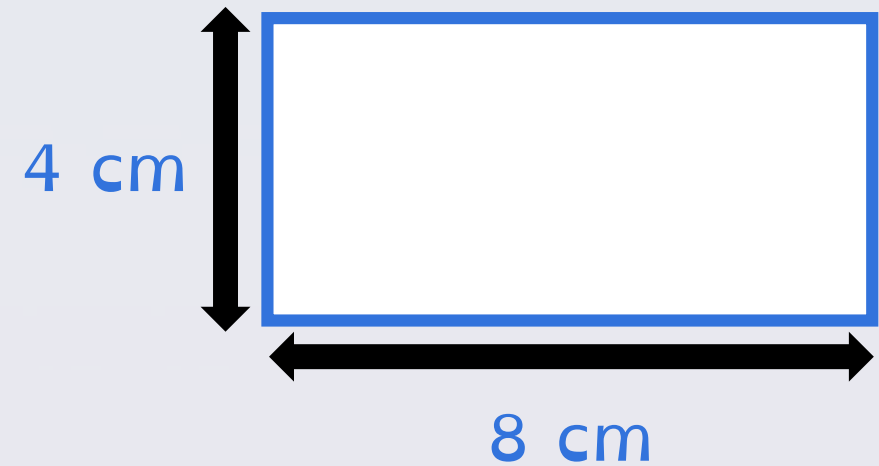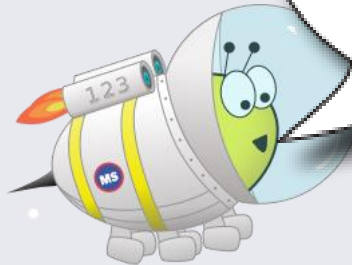What is the perimeter of the shape below

The shape has a perimeter of 14 cm, because the top edge is 5 cm, the left-hand the bottom edge is 3 cm and the right-hand and left hand are each made up of three 1 cm measurements.

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Evaluation:
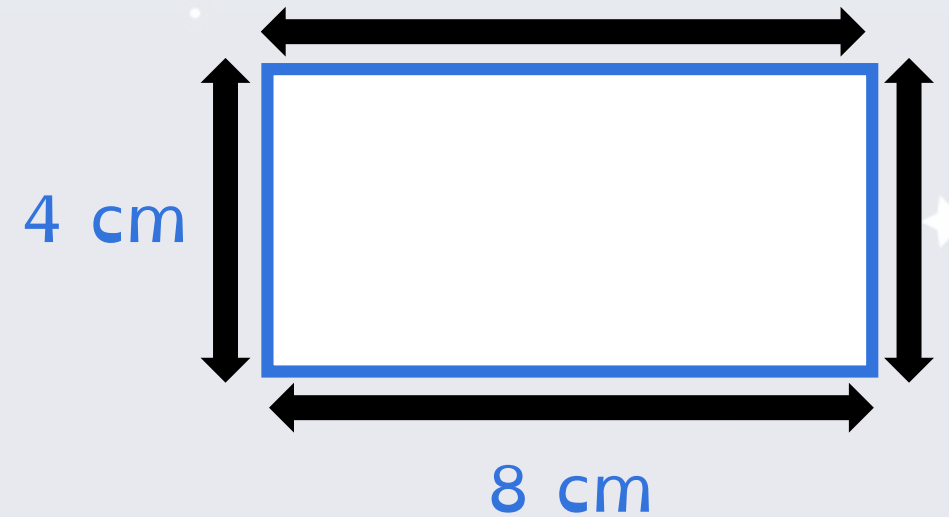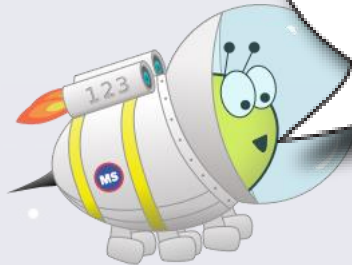
The rectangle has a perimeter of 12 cm.

4 cm

8 cm

Do you agree?

Explain your answer.

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