

Today, we will find the perimeter of a polygon.

1.29.14 Homework Period: ____

CFU

What are we going to do today?

Activate (or Provide) Prior Knowledge

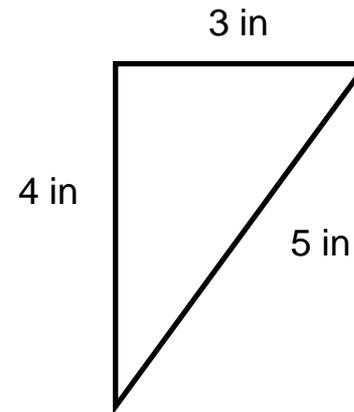
How many sides does each shape have?

What are the lengths of the sides of each shape?

1.



2.



CFU

Students, you already know that a shape's sides have a length.
Today, we will use the side lengths of a polygon to find the perimeter.

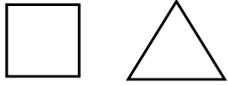
Concept Development

A **polygon** is a **closed** plane¹ figure² with **straight sides**.

¹ flat

² shape

Polygons



NOT Polygons



Units

centimeters (cm)

feet (ft)

inches (in)

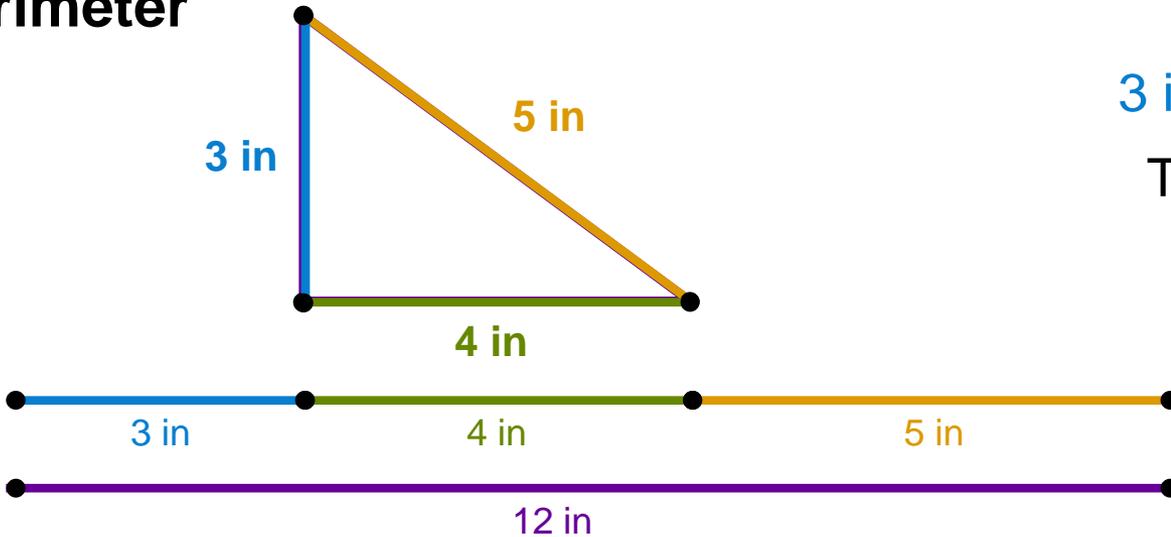
meters (m)

Perimeter is the length of the distance **around** a polygon.

- *Side lengths can be measured in different units³.*

³ amounts of measurement

Perimeter



$$3 \text{ in} + 4 \text{ in} + 5 \text{ in} = 12 \text{ in}$$

The **perimeter** of the polygon is **12 in**.

A **polygon** is a **closed** plane figure with **straight sides**.

Perimeter is the length of the distance **around** a polygon.

Find the perimeter of a polygon.

Units

centimeters (cm)	feet (ft)
inches (in)	meters (m)

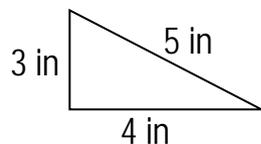
Step #1: Add all side lengths of the polygon.

a. Mark off side lengths as they are used.

Step #2: Interpret⁴ the perimeter using the correct units. "The perimeter is ____ because _____."

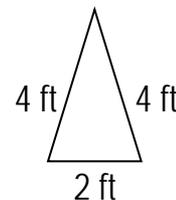
⁴ explain

1.



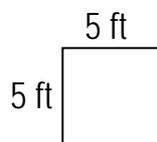
The perimeter is _____
because it is the distance
around the polygon.

2.



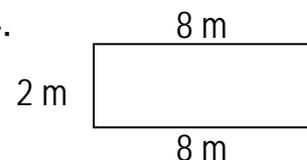
The perimeter is _____
because it is the distance
around the polygon.

3.



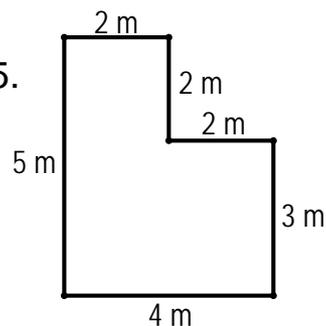
The perimeter is _____
because it is the distance
around the polygon.

4.



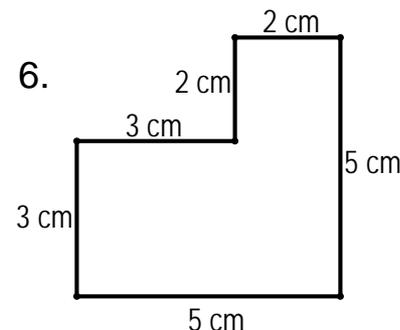
The perimeter is _____
because it is the distance
around the polygon.

5.



The perimeter is _____
because it is the distance
around the polygon.

6.



The perimeter is _____
because it is the distance
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CFU

(#1) How did I/you add the side lengths of the polygon?

(#2) How did I/you interpret the perimeter?

A **polygon** is a **closed** plane figure with **straight sides**.

Perimeter is the length of the distance **around** a polygon.

Skill Closure

Find the perimeter of a polygon.

Step #1: Add all side lengths of the polygon.

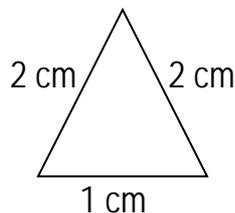
a. Mark off side lengths as they are used.

Step #2: Interpret the perimeter using the correct units. “The perimeter is ___ because _____.”

Units

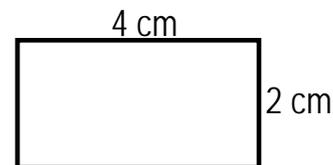
centimeters (cm) feet (ft)
inches (in) meters (m)

1.



The perimeter is _____ because it is the distance around the polygon.

2.



The perimeter is _____ because it is the distance around the polygon.

Summary Closure

What did you learn today about finding the perimeter of a polygon? (pair-share)

A **polygon** is a **closed** plane figure with **straight sides**.

Perimeter is the length of the distance **around** a polygon.

Units

centimeters (cm) feet (ft)
inches (in) meters (m)

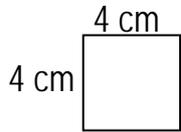
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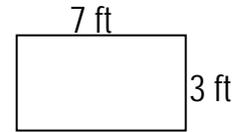
Step #2: Interpret the perimeter using the correct units. "The perimeter is ___ because _____."

1.



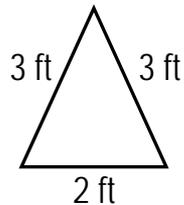
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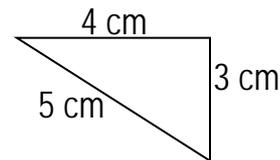
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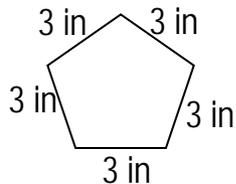
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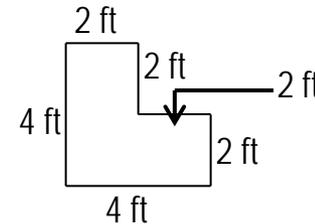
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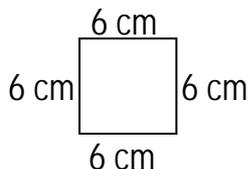
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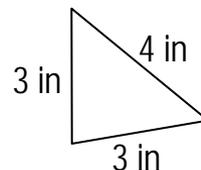
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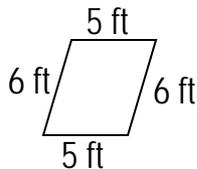
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2.



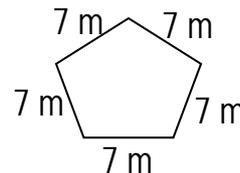
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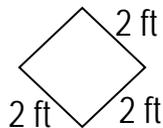
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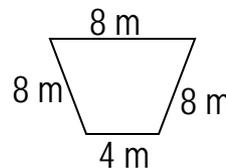
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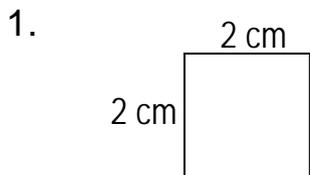
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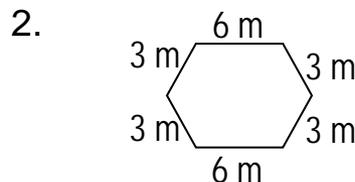
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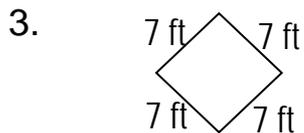
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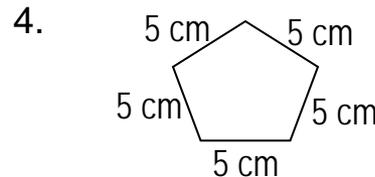
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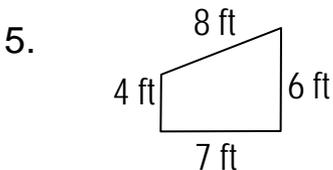
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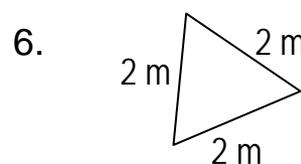
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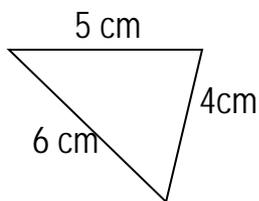
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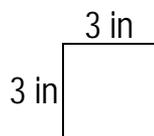
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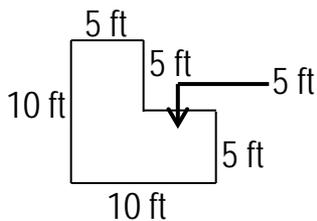
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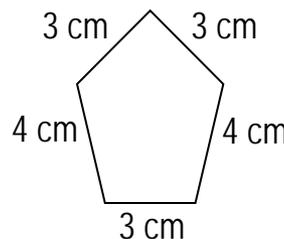
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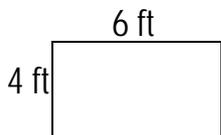
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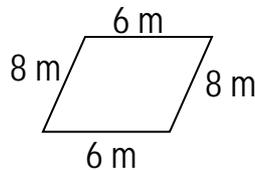
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