



THIRD SPACE
LEARNING

Perimeter and Area

To understand how to measure the
perimeter of a shape



To understand how to measure the perimeter of a shape

Key Vocabulary:

Perimeter
Area
Composite shape
Composite rectilinear shape

Sentence Stems:

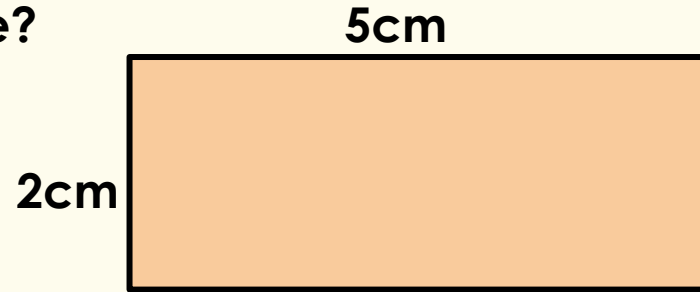
The perimeter is the distance around a 2-D shape.



To understand how to measure the perimeter of a shape

In focus:

What is the perimeter of this shape?



A 10cm

C 7cm

B 14cm

D You cannot find the perimeter.



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Success Criteria

- I can explain what the perimeter of a shape is
- I can explain how to find the perimeter of a shape
- I can measure accurately using a ruler

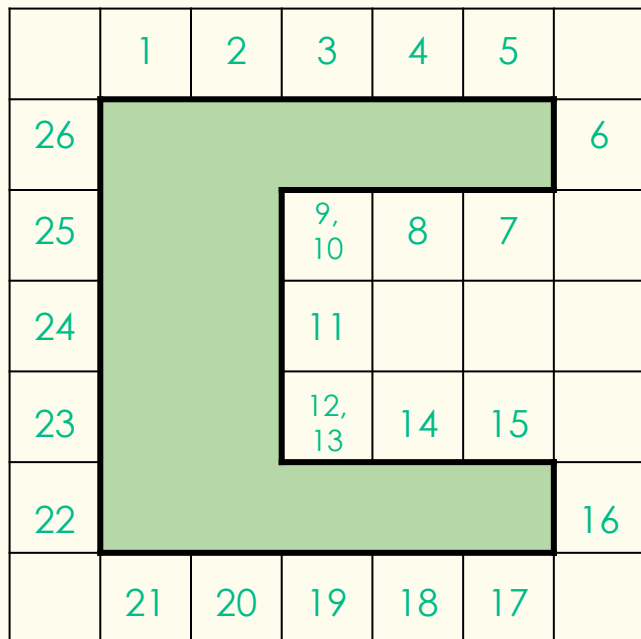


To understand how to measure the perimeter of a shape

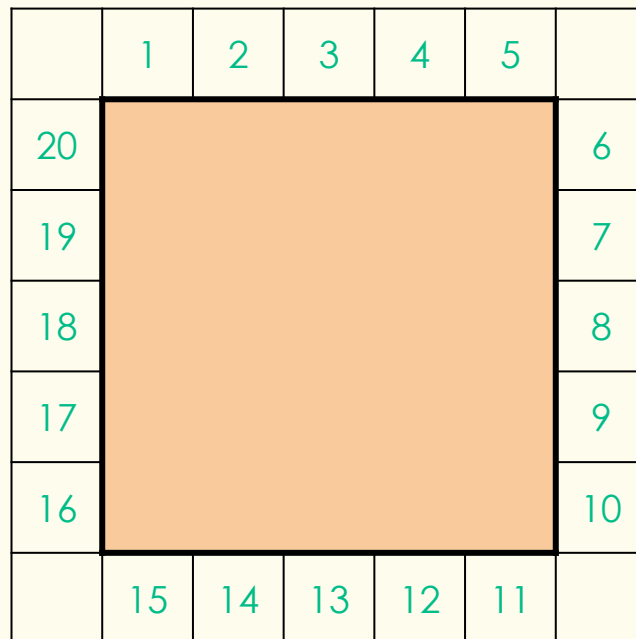
Starter:

Calculate the perimeters of each shape.

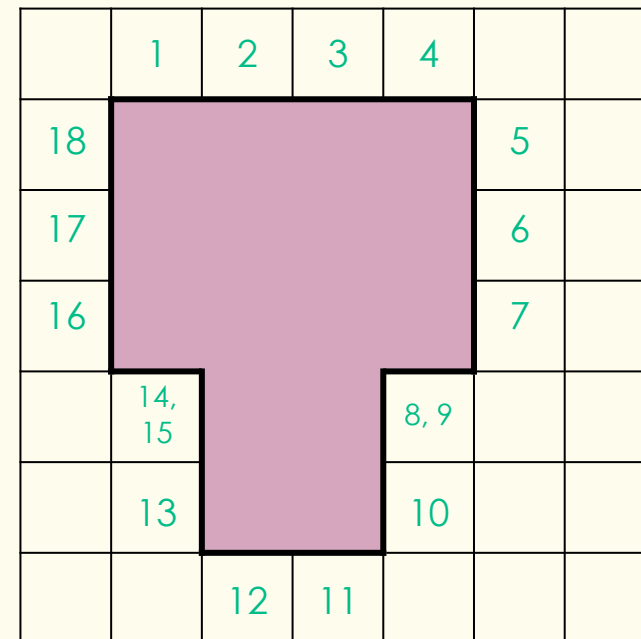
Assume the shapes have been drawn on 1 cm x 1 cm grids.



Perimeter = 26cm



Perimeter = 20cm



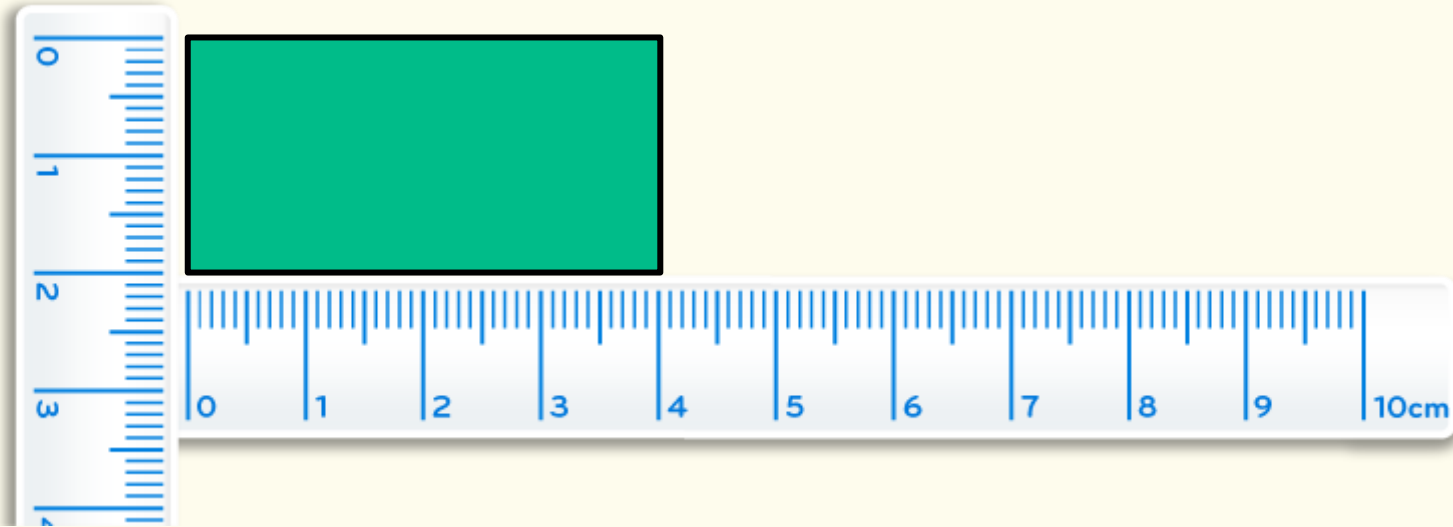
Perimeter = 18cm

Answers



To understand how to measure the perimeter of a shape

Explain how to use a ruler to find the perimeter of a shape.

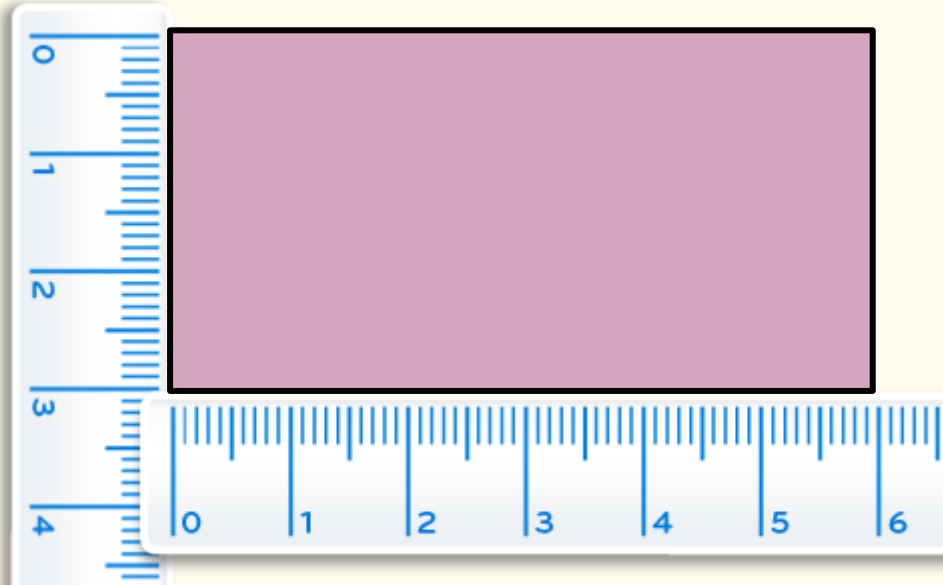


Answers

To understand how to measure the perimeter of a shape

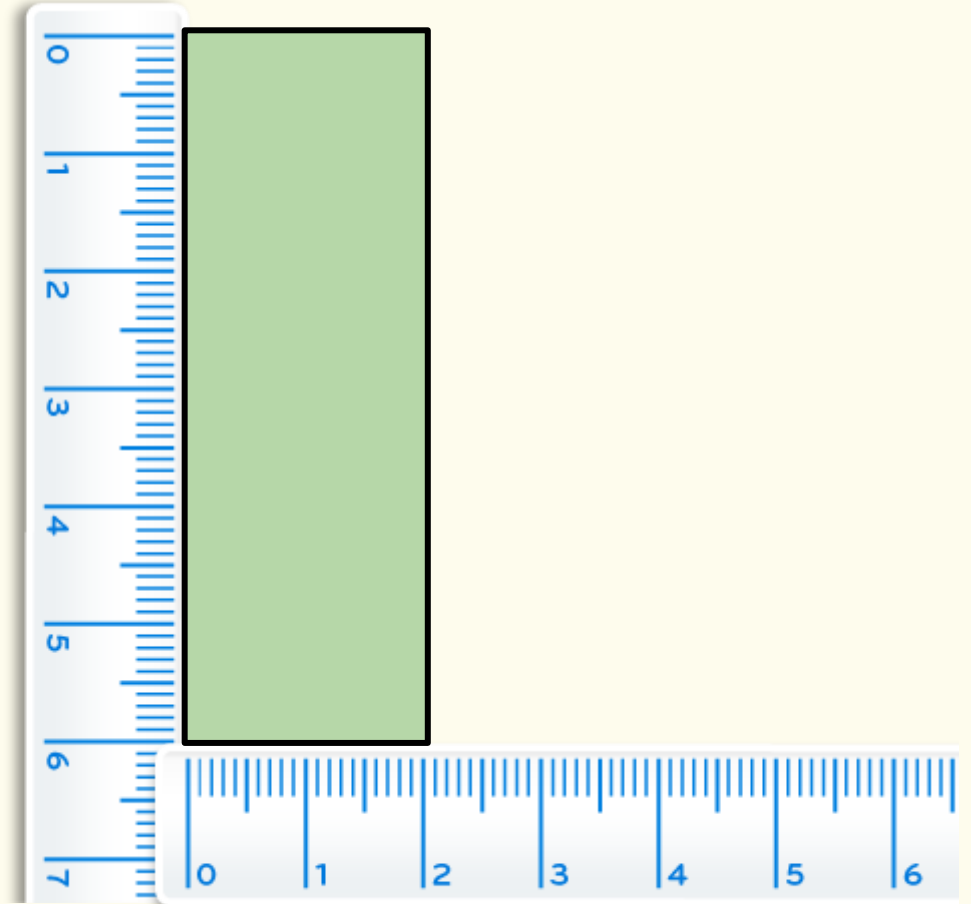
Guided Practice:

Use the ruler given to measure the perimeter of the rectangles in cm.



Pink shape perimeter: $(3\text{cm} + 6\text{cm}) \times 2 = 18\text{cm}$

Green shape perimeter: $(6\text{cm} + 2\text{cm}) \times 2 = 16\text{cm}$



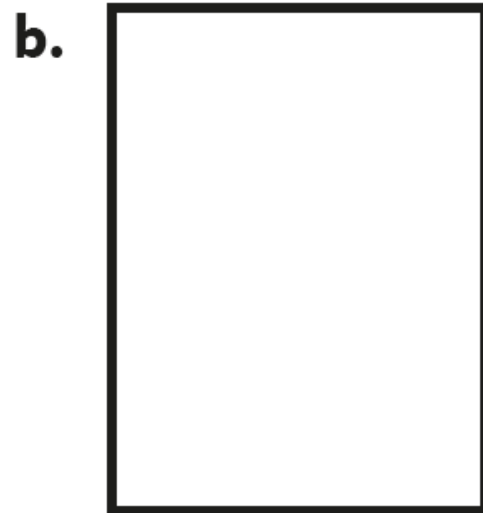
Answers



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Independent Practice:

1. Measure the perimeter of these rectangles.

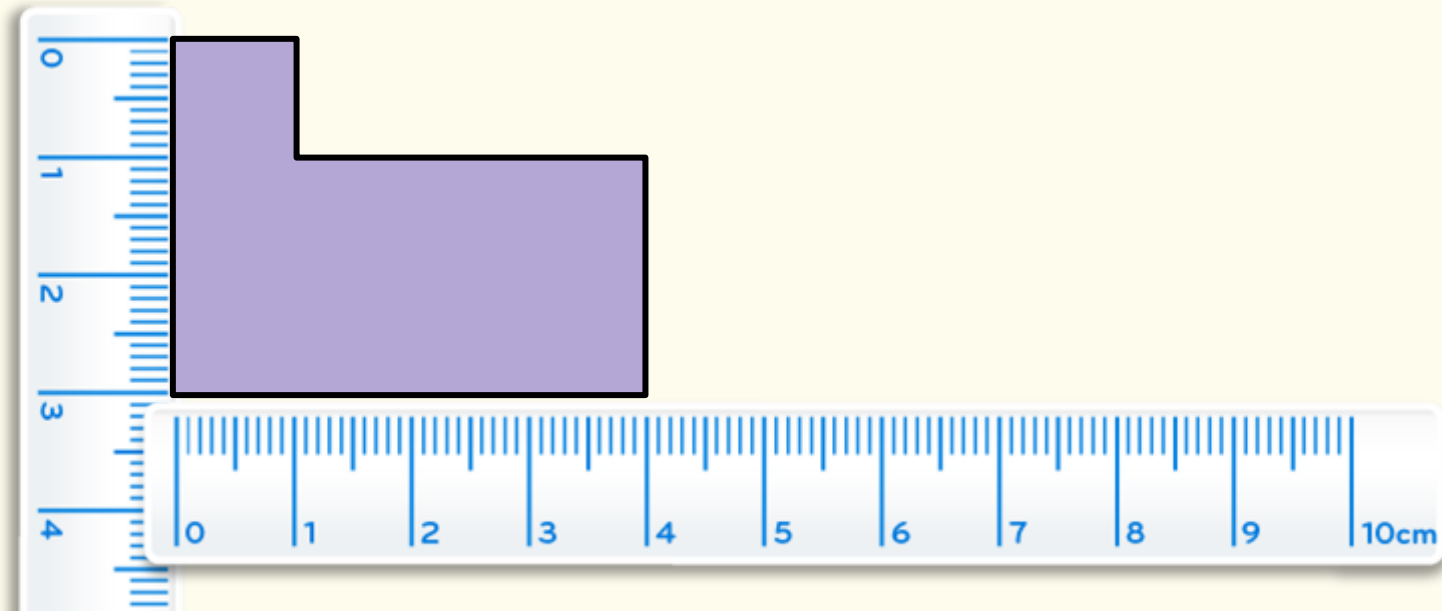




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Guided Practice:

How would I measure the perimeter of this shape?



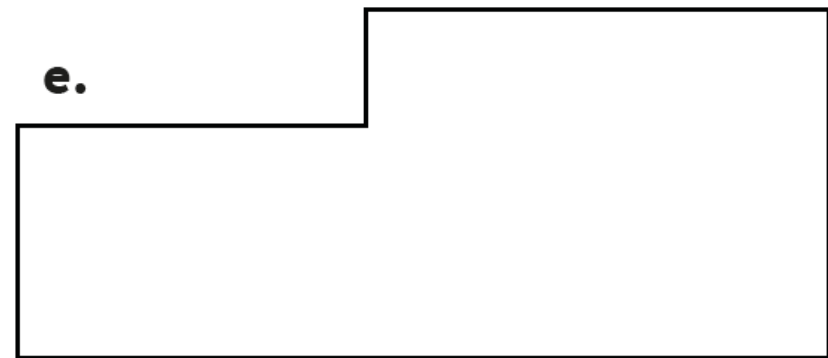
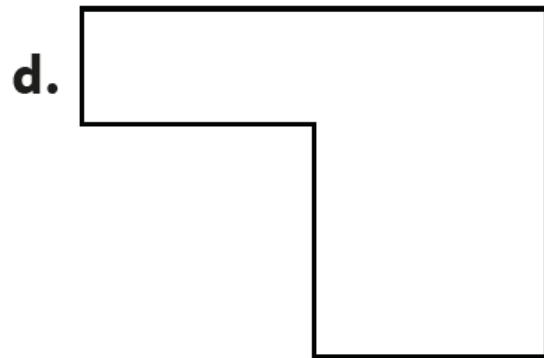
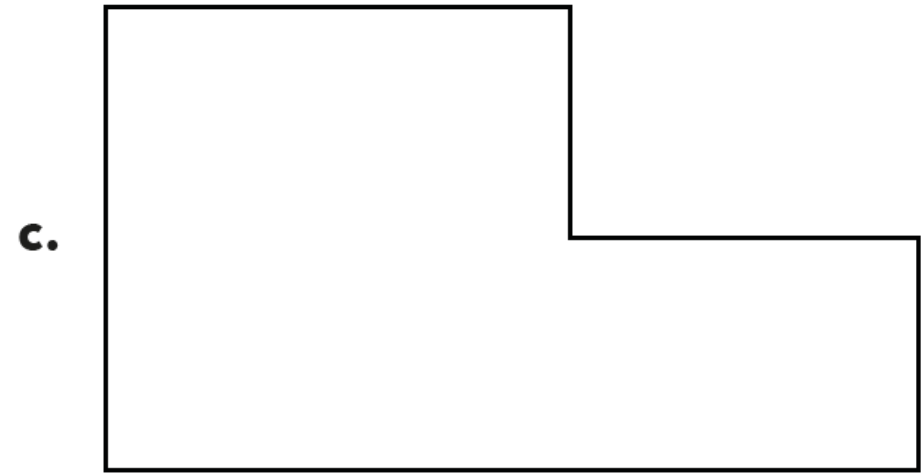
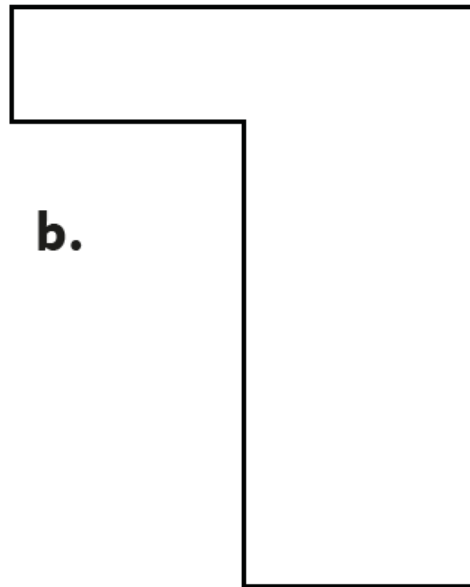
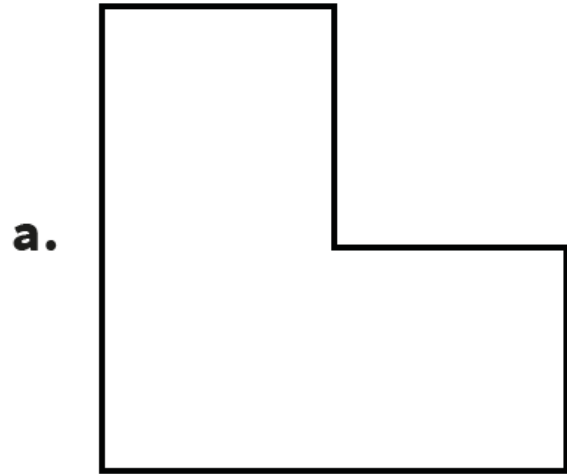
Perimeter: $3\text{cm} + 4\text{cm} + 2\text{cm} + 3\text{cm} + 1\text{cm} + 1\text{cm} = 14\text{cm}$

Answers

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Independent Practice:

2. Measure the perimeter of these shapes.

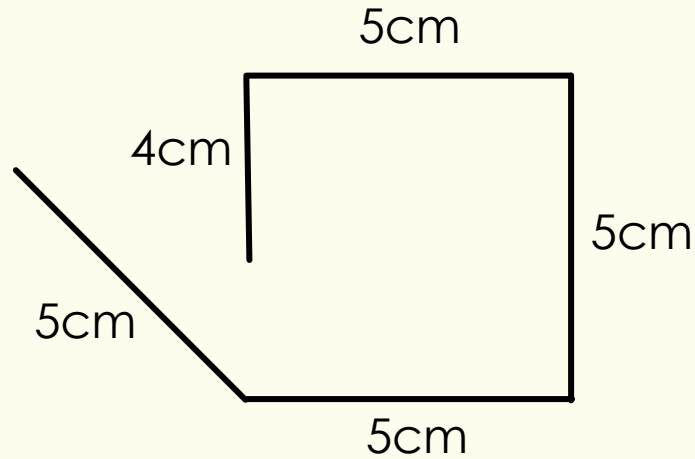


To understand how to measure the perimeter of a shape

Guided Practice:

The astronaut says they have drawn a shape with a perimeter of 24cm.

Do you agree?



The astronaut is wrong. The shape is incomplete so it is not rectilinear composite shape. The length of the lines total 24cm, but this is not the same as the perimeter.

Answers



To understand how to measure the perimeter of a shape

Independent Practice:

- 3.** Draw at least five different composite rectilinear shapes with a perimeter of 30cm.



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Light bulb challenge

True or false?

- Side A = Side D + Side E

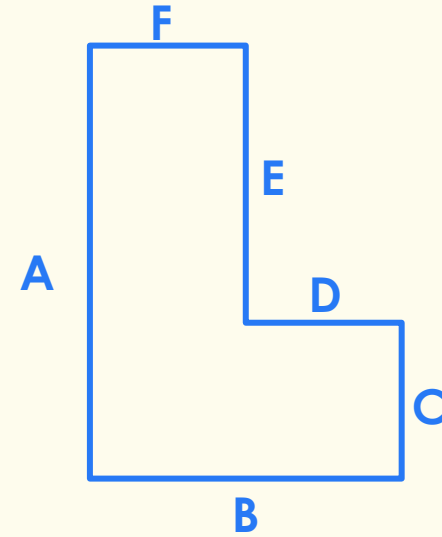
False

- Side F + Side D = Side B

True

- Perimeter = Side A + Side B + Side C + Side D + Side E

False



Write a true or false question about the shape.

Answers