

Perimeters of Polygons



Quick Review

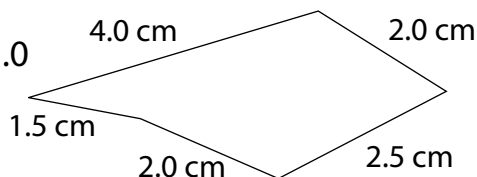
- We can find the perimeter of any polygon by adding the side lengths.

For this pentagon:

$$\text{Perimeter} = 4.0 + 1.5 + 2.0 + 2.5 + 2.0$$

$$= 12$$

The perimeter is 12 cm.



- We can use a formula to find the perimeter of some polygons.

Square

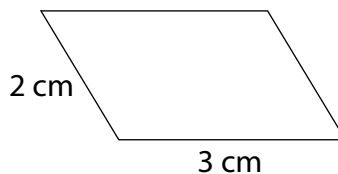


$$P = s \times 4$$

$$P = 2 \times 4$$

$$= 8$$

Parallelogram



$$P = 2 \times (\ell + s)$$

$$P = 2 \times (3 + 2)$$

$$= 2 \times 5$$

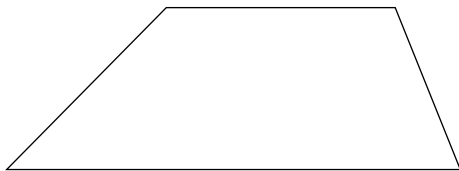
$$= 10$$

The perimeters of the polygons are 8 cm and 10 cm.

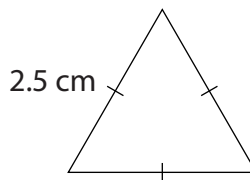
Try These

1. Find the perimeter of each polygon.

a)



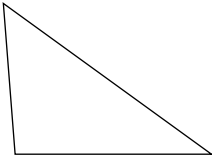
b)



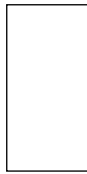
Practice

1. Find the perimeter of each polygon.

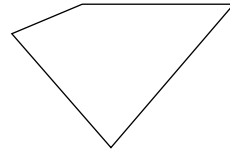
a)



b)



c)



2. Kerry skates laps around the playground.

The playground is 150 m long and 50 m wide.

How many laps will it take Kerry to skate 1 km? _____

3. The perimeter of an equilateral triangle is 5.1 m. How long are its sides?
Give your answer in as many different units as you can.

4. The perimeter of an atlas is 1.4 m.

How long might each side be? _____

5. Suppose the side lengths of a rectangle are halved.
What would happen to the perimeter?

Stretch Your Thinking

One side of Kirby's rectangular garden measures 5 m.

The perimeter of the garden is 27 m.

Draw a sketch of Kirby's garden.

Label the side lengths.