

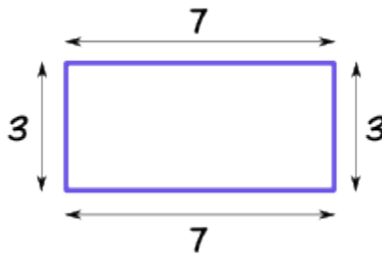
Namaskar ☺ I hope everyone is staying safe and utilising their time wisely.

All notes, shapes, examples and activities must be copied and completed in your exercise book.

PERIMETER

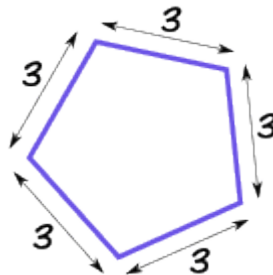
Perimeter is the distance around the outside of a shape. It is calculated by adding the length of all sides together.

Example: the perimeter of this rectangle is $7+3+7+3 = 20$

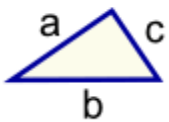


Example: the perimeter of this regular pentagon is:

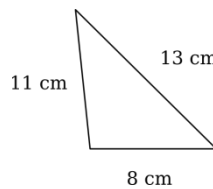
$3+3+3+3+3 = 5 \times 3 = 15$



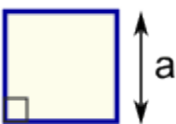
Perimeter Formulas



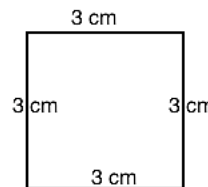
Triangle
Perimeter = $a + b + c$



$P = 11 \text{ cm} + 13 \text{ cm} + 8 \text{ cm}$
 $P = 32 \text{ cm}$



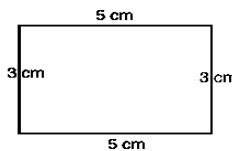
Square
Perimeter = $4 \times a$
a = length of the side



$P = 4 \times a$
 $P = 4 \times 3 \text{ cm} = 12 \text{ cm}$
 $P = 12 \text{ cm}$



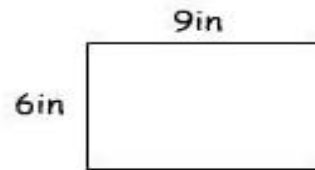
Rectangle
Perimeter = $2 \times (w + l)$
w = width
l = length



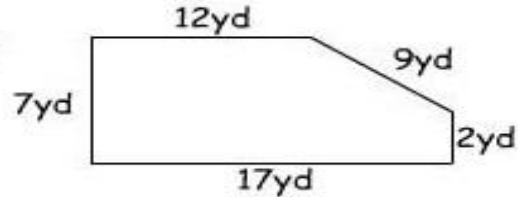
$P = 2 \times (w + l)$
 $P = 2 \times (3 \text{ cm} + 5 \text{ cm})$
 $P = 2 \times 8 \text{ cm} = 16 \text{ cm}$

Working Mathematically

1) Henry, the ant walked around this shape twice.
How far did he walk? _____



2) How many yards of fencing does Sally need for her paddock? _____

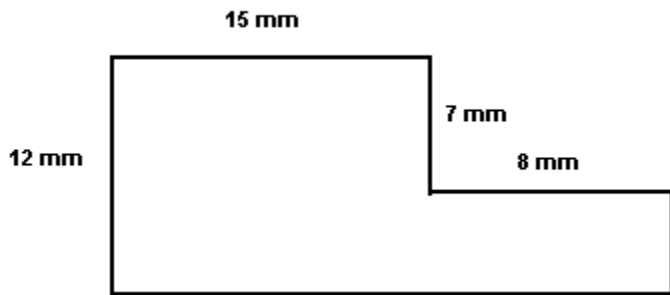


3) What is the perimeter of a square with 12 in sides? _____

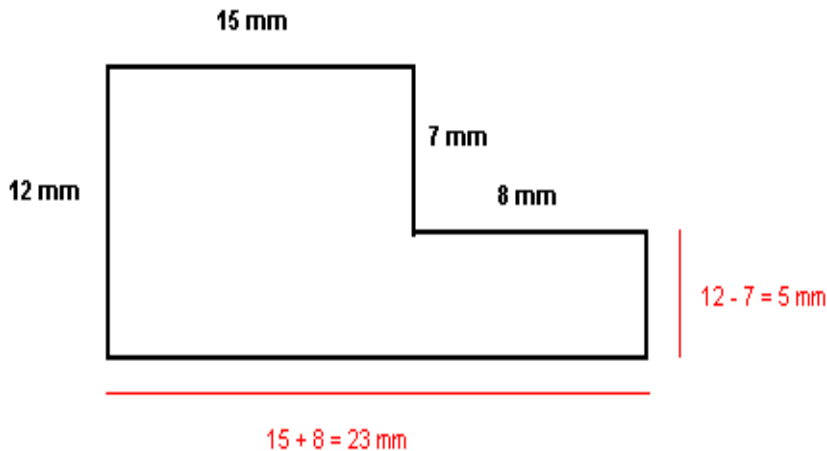
NB: The abbreviation for inch is: in

Example

Find the perimeter of the shape below

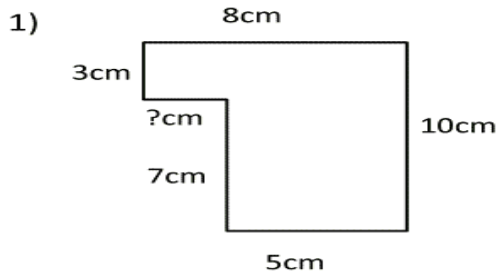


We first find the missing sides (in red) in the given figure.

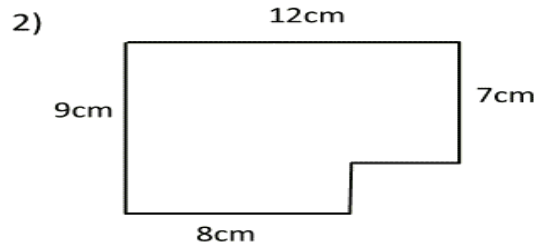


Right side = $12 - 7 = 5$ mm
 Bottom side = $15 + 8 = 23$ mm
 Now that you have all the sides of the shape, calculate the perimeter by adding all the sides.
 $P = 15 + 7 + 8 + 5 + 23 + 12 = 70$ mm

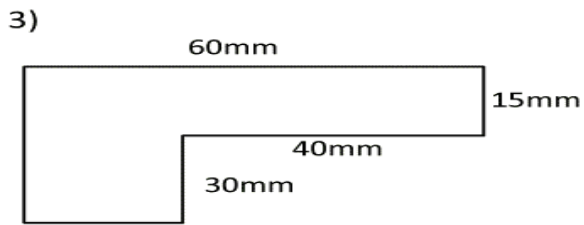
Find the length of the missing sides and then work out the perimeter of each shape. The shapes are not drawn to scale.



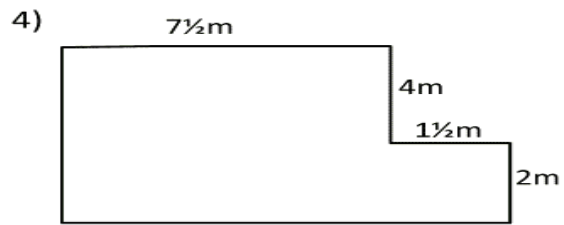
Perimeter = _____ m



Perimeter = _____ cm



Perimeter = _____ mm



Perimeter = _____ m

Work out the perimeter of the following triangles

Triangle 1: Sides 4cm, 2cm, 4.5cm. Perimeter: _____
 Triangle 2: Sides 3cm, 6cm, 6.5cm. Perimeter: _____
 Triangle 3: Sides 3cm, 3cm, 4.2cm. Perimeter: _____
 Triangle 4: Sides 6cm, 2cm, 6.3cm. Perimeter: _____
 Triangle 5: Sides 2cm, 6cm, 6.3cm. Perimeter: _____
 Triangle 6: Sides 4cm, 5cm, 6.4cm. Perimeter: _____



Work out the perimeter of the following rectangles

3cm



2cm

6cm



8cm

4cm



6cm

5cm



4cm

1cm



4cm

8cm



5cm



2cm



4cm
