![JustMaths logo]

How to . . . *This is not as tough as it first appears . . .*

The diagram shows a garden in the shape of a rectangle

$4 + 3x$

Diagram NOT accurately drawn

$x + 6$ $x + 6$

$4 + 3x$
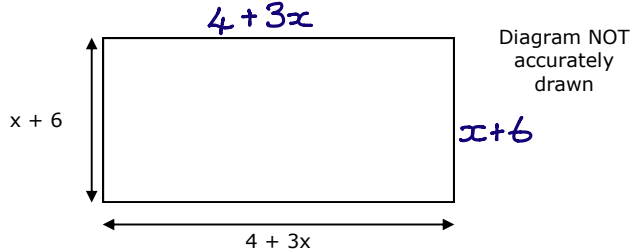
All measurements are in metres. The perimeter of the garden is 32 metres.

all the way around the shape

Work out the value of x

$$4 + 3x + x + 6 + 4 + 3x + x + 6 = \underline{32}$$

$$8x + 20 = 32 \Leftarrow \text{we now need to solve this.}$$
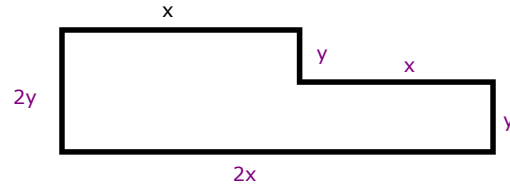
(-20) $8x + 20^{-20} = 32^{-20}$

$$8x = 12$$

$(\div 8)$ $\dfrac{8x}{8} = \dfrac{12}{8}$ so $x = 12 \div 8 = \underline{1.5}$
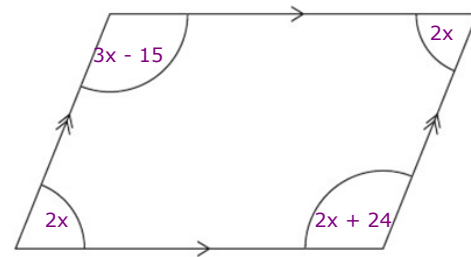
(4)

you could also cancel this down $\dfrac{6}{4} = \dfrac{3}{2} = 1.5$

Now have a go yourself . . .

Q1. The diagram shows the plan of an L shaped room. The dimensions of the room are given in metres. Write down a formula in terms of x and y for the perimeter P metres of the room.

x

y

x

2y

2x

y

Q2. The diagram shows a parallelogram.

3x - 15

2x

2x

2x + 24
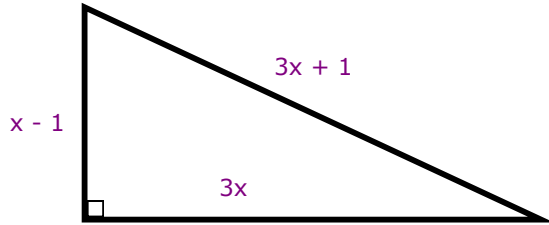
The size of the angles, in degrees are: -

     2x

     3x - 15

     2x

     2x + 24

Work out the value of x

Q1. The diagram shows a triangle.

In the diagram, all the measurements are in metres.

The perimeter of the triangle is 56 m.
The area of the triangle is A m^2.

Work out the value of A

Checklist

☐ Answer checked

☐ Working out shown

Keywords

Things to remember ...

Don't Forget

What went well ...

Teacher comment ..