**WE DO**

**YOU DO**

Write 72 as a product of its prime factors.

Write 40 as a product of its prime factors.

$c = 4d - 7$

Find the value of $c$ when $d = 6$
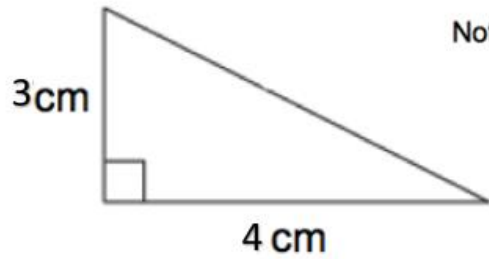
$v = u + at$

$u = 3$
$a = 10$
$t = 6$

Work out the value of $v$.

A bag costs £20 and has now been increased by 10%, how much does it now cost?

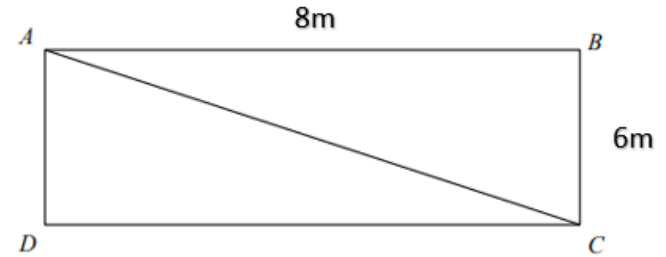A bag costs £30 and has now been increased by 15%, how much does it now cost?

Not drawn accurately

3cm

4 cm

Shown is a right-angled triangle.

Work out the perimeter of the triangle

8m

A          B

6m

D          C

The shape is made from 5 lines on a field.
Work out the total length of all the lines.
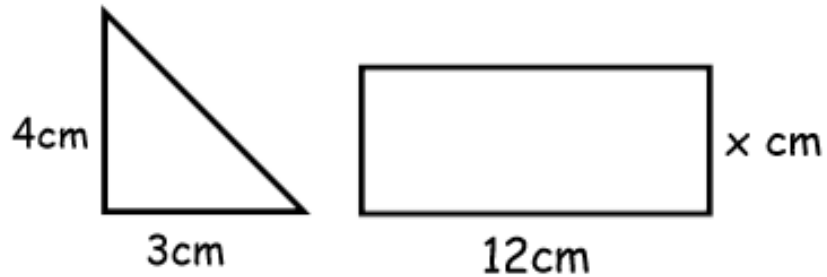
$-1 < n \leq 3$ where $n$ is an integer.

Write down all the possible values of $n$.

$4 \leq y < 8$ where y is an integer.

(b) Write down all the possible values of $y$.

4cm

3cm

12cm

x cm
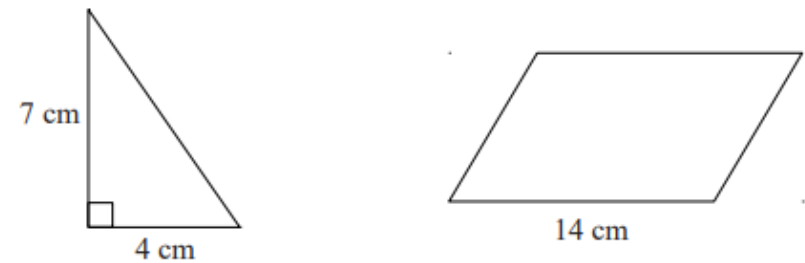
The area of the rectangle is 10 times bigger than the triangle.
What is x?

The diagram shows a right angled triangle and a parallelogram.

7 cm

4 cm

14 cm

The area of the parallelogram is four times the area of the triangle.

The perpendicular height of the parallelogram is $h$.

Find the value of $h$.

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Line 1: y = 2x -5

Line 2: 3y - 6x = 2

Explain why these are parallel

Line 1: y = 2x +7

Line 2: 2y - 4x = 6

Explain why these are parallel