Jack hires a hall for a party.

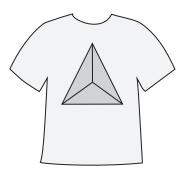
This formula is used to work out the total cost.

Total cost = £15 booking fee + £12.50 per hour

What is the total cost of hiring the hall from 6 pm until 11 pm?

£			

A shop prints designs on T-shirts.



They use this formula to work out the price for printing a design.

price =  $60p \times number of colours + £1.25$ 

What is the price for printing a design that has 3 colours in it?

£

1 mark

Amina has £5 to spend on printing a design.

What is the greatest number of colours she can have in the design?

Show your method colours

2 marks



16

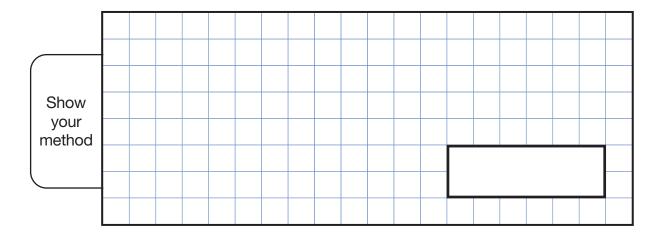
Lara chooses a number less than 100

She divides it by 3 and then subtracts 11

She then divides this result by 2

Her answer is 10.5

## What was the number she started with?



2 marks



$$x + 2y = 20$$

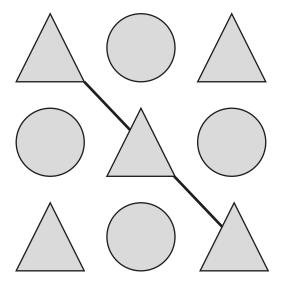
 $\boldsymbol{x}$  and  $\boldsymbol{y}$  are whole numbers less than 10

## What could x and y be?

$$x =$$

$$y = |$$





Each shape stands for a number.

The total of the shapes on the diagonal line is 48

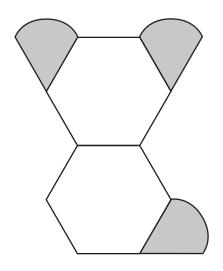
The total of all the shapes is 200

Calculate the value of each shape.

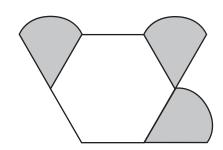
1 mark

Amina is making designs with two different shapes.

She gives each shape a value.

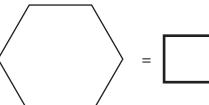


Total value is 147



Total value is 111

Calculate the value of each shape.



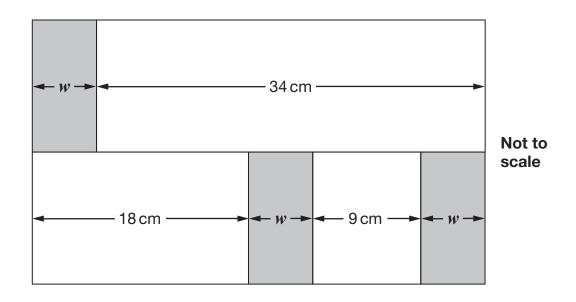
=

1 mark

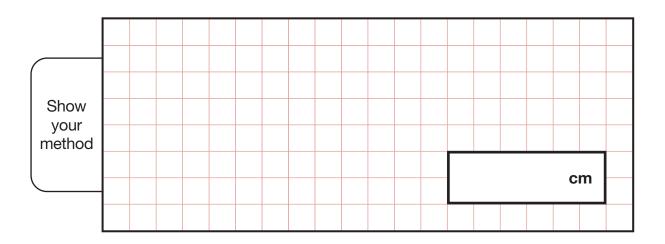


=

In this diagram, the shaded rectangles are all of equal width (w).



Calculate the width (w) of one shaded rectangle.



2 marks



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_	_	4

а	b
1	9
2	19
3	29
4	39

Complete the **rule** for the number pattern.

$$b = \boxed{\phantom{a} \times a - \boxed{\phantom{a}}}$$