



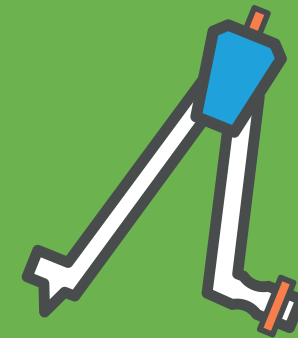
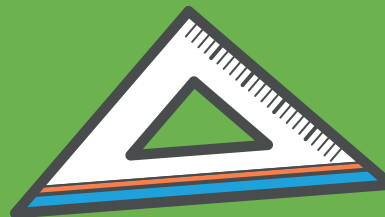
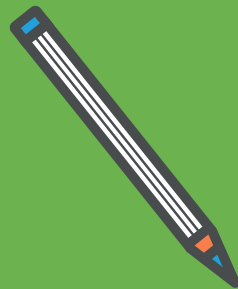
# Mathvember

By Whizz Education



## Headteacher challenges

Questions 1 - 4





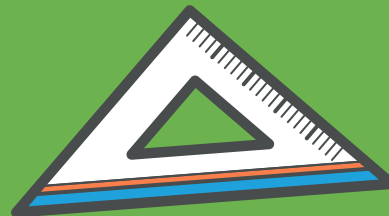
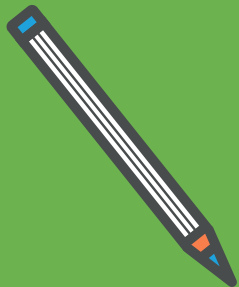
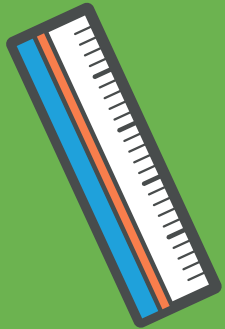
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## Headteacher challenge

### Week one





What is the missing number:

A number added to a quarter of that number totals 15.

What was the original number?



12

Lets assume  $x = 4$

Therefore  $4 + (4 \times \frac{1}{4}) = 5$ . (not 15)

So  $4 \times 3 = x = 12$



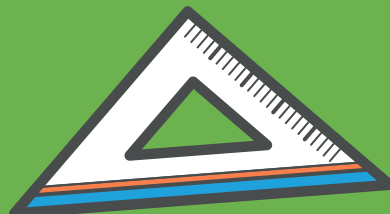
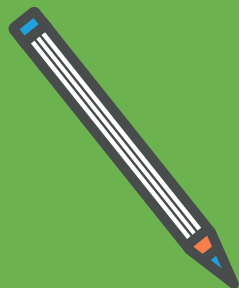
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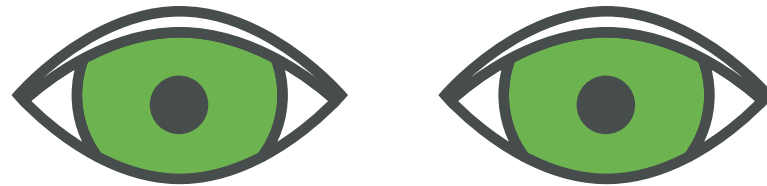


## Headteacher challenge

### Week two



This riddle dates from the last phase of Sumerian history;  
Sumer would eventually fall, to be replaced by Babylon.



There is a house.  
One enters it blindly.  
One leaves it seeing.  
What is it?

# A school





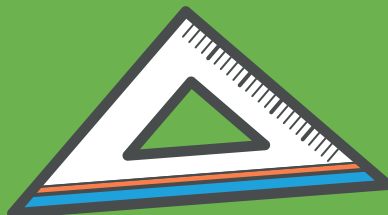
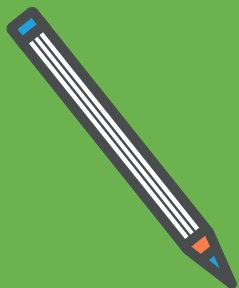
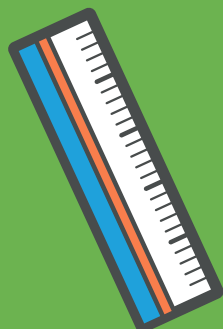
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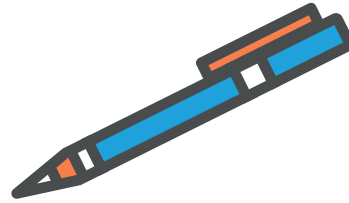


## Headteacher challenge

### Week three

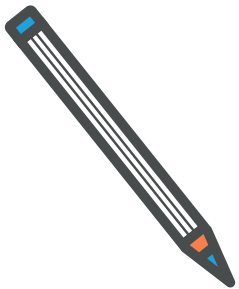






A quantity together with its two-thirds has one-third of its sum taken away to total 10.

What is the quantity?



9

$$9 + 6 = 15$$

$$15 - 5 = 10$$



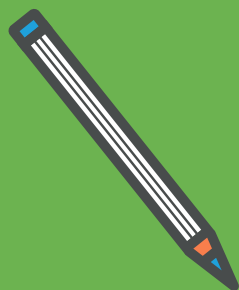
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## Headteacher challenge

### Week four

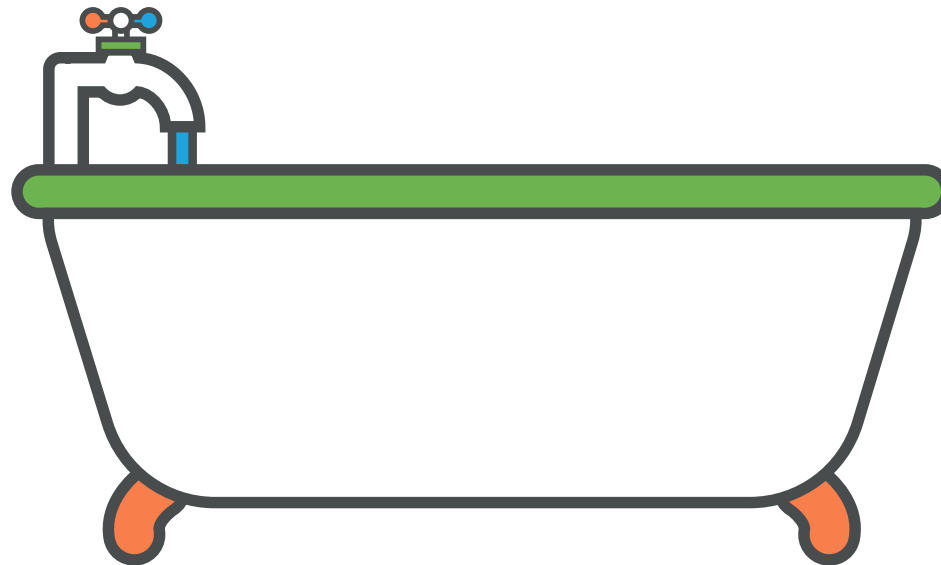


A bath has a volume of 48 litres, it has a hot and a cold tap but also a leaky plug.

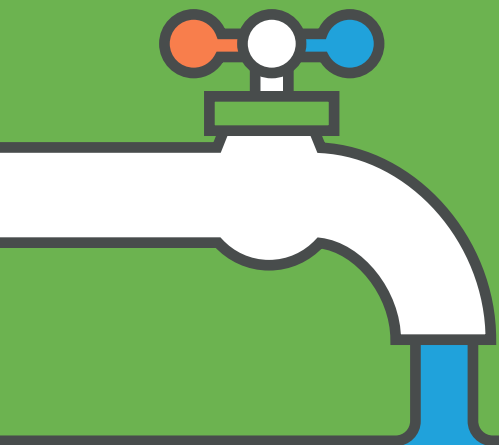
The hot tap alone will fill the bath in 12 minutes.

The cold tap alone will fill the bath in 6 minutes.

The leaky plug alone will empty the bath in 8 minutes.



If the bath is empty and the hot and cold taps are fully open but the plug is in and leaking, how many minutes will it take to fill up the bath?



The cold tap provides 48 litres in 12 minutes (4 litres per min)

The hot tap fills the bath at 8 litres per min.

The plug is leaking at 6 litres per minute.

The overall balance is 6 litres per minute so it will take 8 minutes to fill the bath.

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