National Numeracy Tests

REASONING

8ER18

First name					
l act name					
Last Hallie					
School					
Class					
Date of hirth					
Date of birtin					
Date of test	2018				

(maximum 20)





Total score





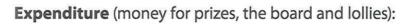
What will our profit be if 150 people play?

Complete the missing information:

If 150 people play

Income:

£



Colour of stick	Number of sticks	Prize per stick	Total amount	
Red	1	£2.50	£	
Blue	9	£1.00	£	
Yellow	20	25p	£	
White	120	0р	£	0.00
Cost of the board and lollies			£	26.00
Total =			£	

Profit =

£







What will our profit be if 120 people play?



If 120 people play, why can't Year 8 be sure how much they will give out for prizes?



If 120 people play, work out their **maximum** and **minimum** possible profit.



Maximum



Minimum

Maximum possible profit

£

Minimum possible profit

£

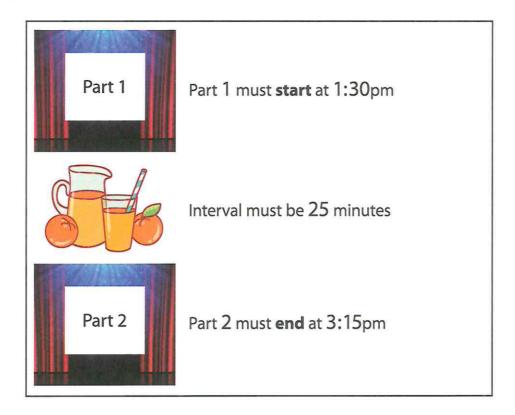






Pupils in Year 8 plan their school show.

There will be two parts with an interval in between.

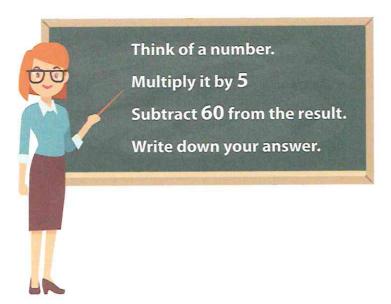


The parts must last for the **same** amount of time.

At what time must the **interval start**?



A teacher says:



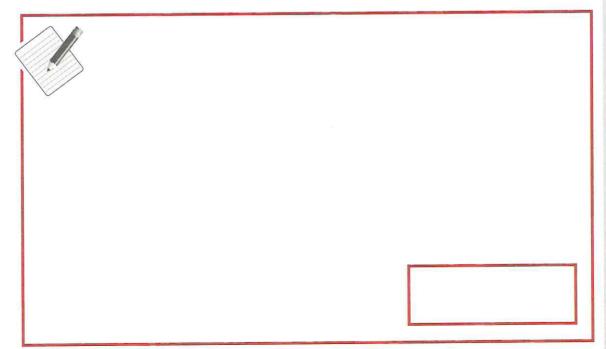
Siwan's answer is 40

What number did Siwan start with?



Gareth's answer is the **same** as the number he started with.

What number did Gareth start with?









Live concerts at the biggest stadium in Wales

Imagine every person living in Wales aged between 5 and 64 wants to go to one of these concerts.

Use the facts below. How many concerts would there need to be?

Facts:

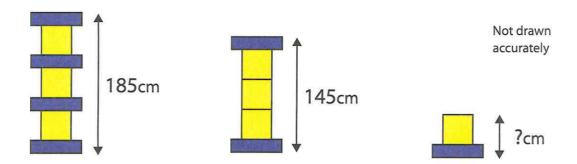
- 74500 visitors can fit in the stadium at one time.
- About 3100000 people live in Wales. Of these, 180000 are aged below 5 and 625000 are aged 65 or over.



concerts



8 Rashid makes towers using identical blue blocks and identical yellow blocks.



Work out the missing height.

