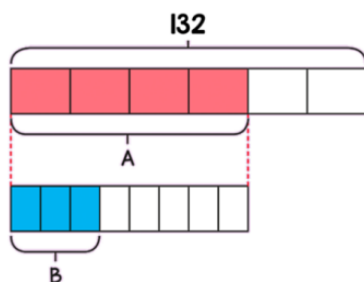


## Maths

02.07.2020

Good morning Longboats, how are you today?

### Starter



Hint – break  
the problem  
down into  
smaller steps.



### Main Activity

On the next page, there is some data that you need to interpret. Choose a box and answer the questions. **Remember – you do not have to do every box! Pick the one that you think is the right challenge for you and then pick another one if you want an extra challenge!**



1. What is the difference between the number of white cars and green cars on the carpark?
2. How much greater is the distance from London to Edinburgh than the distance from London to Manchester.
3. If you were drawing a bar chart to show the number of animals on the farmyard, what should you label your  $x$  axis?
4. Daisy is making a bar chart to show how many ml are in each bottle of drink. She says "I'll do my scale in jumps of 2" – why is this a bad idea? What would be more sensible?



1. You are making a bar chart for the data about cars. What would you label the  $x$  axis?
2. You are making a bar chart for the data about drinks, what scale would you choose for the  $y$  axis?  
Explain why.



1. Which set of data would need to go up in the greatest scale on its  $y$  axis? Why?
2. Imagine you are drawing the  $y$  axis for each set of data. Which  $y$  axis would be the highest? Why? (Clue: your answer will be different to q. 1)
3. Leah says, "I can't go up in a scale of 2 for the carpark data because there are some odd numbers. They won't be able to be shown on the  $y$  axis if I'm going up in jumps of two." Do you agree? Explain how you know.

## Data sets

<b>Animal</b>	<b>Amount on the farm</b>
sheep	16
cows	29
pigs	11
chickens	24

<b>Colour of car</b>	<b>Amount in the carpark</b>
red	24
blue	15
silver	30
black	25
white	43
green	8

<b>Type of drink</b>	<b>ml in bottle</b>
chocolate milkshake	180ml
lemonade	250ml
strawberry and banana smoothie	330 ml

<b>City</b>	<b>Distance from London</b>
Leicester	100 miles
Manchester	200 miles
Edinburgh	400 miles
Cardiff	150 miles