

RECALL

Match each fraction to its correct percentage equivalence.

$$\frac{2}{5}$$

$$\frac{2}{50}$$

$$\frac{5}{100}$$

$$2\%$$

$$4\%$$

$$5\%$$

$$20\%$$

$$40\%$$

RECALL ANSWERS

Match each fraction to its correct percentage equivalence.

$$\frac{2}{5}$$

$$\frac{2}{50}$$

$$\frac{5}{100}$$

$$2\%$$

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$$20\%$$

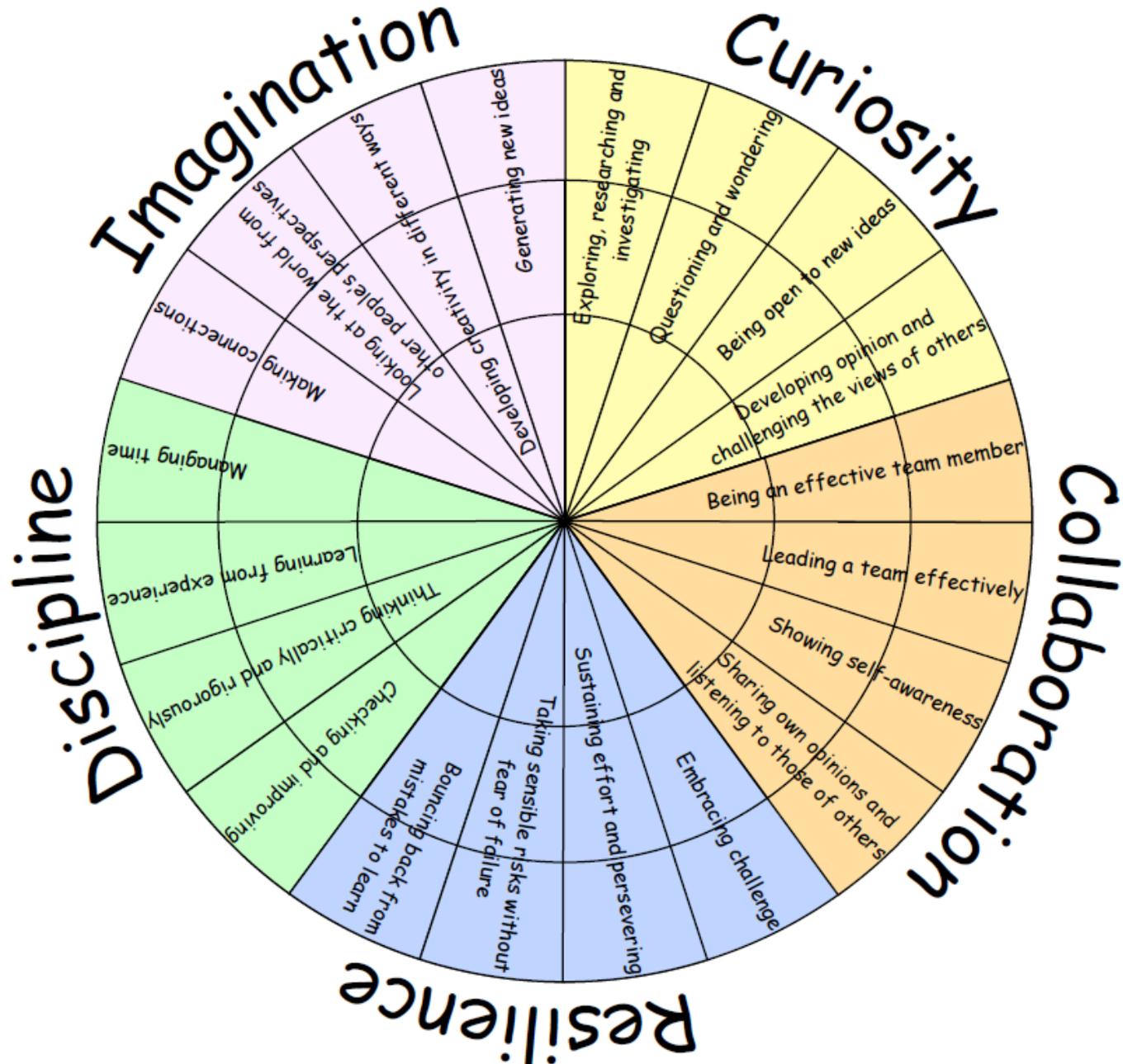
$$40\%$$



I CAN INTERPRET A PIE CHART

Statistics (31ix)

LEARNING HABITS?



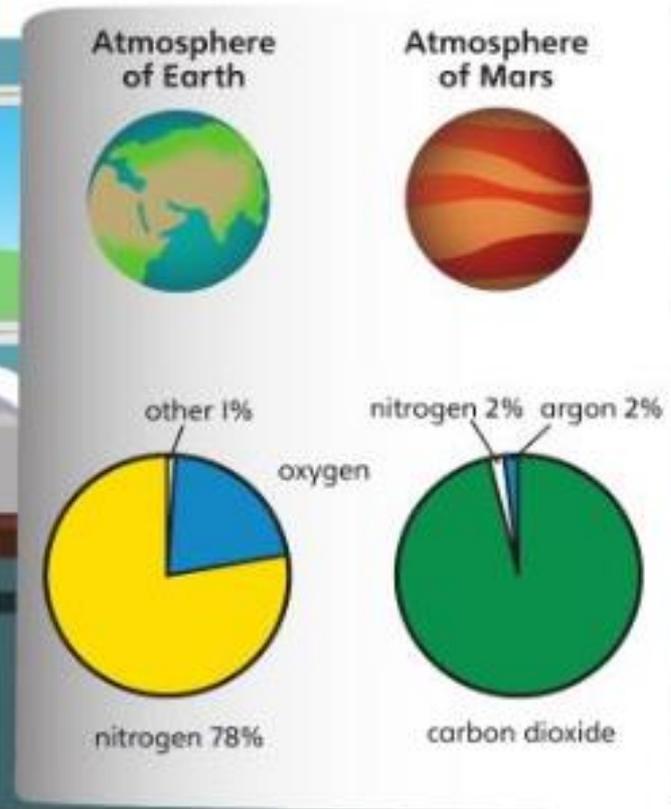
GUIDED PRACTICE

1) What fraction of the atmosphere of Mars is nitrogen, argon and carbon dioxide?

Show these in their simplest form.

2) How accurate is Aki's estimate for Earth's atmosphere?

I estimate one fifth of Earth's atmosphere is oxygen. I thought it would be more than that.



INTELLIGENT PRACTICE



$$10\% \text{ of } 200 =$$

$$10\% \text{ of } 400 =$$

$$10\% \text{ of } \underline{\quad} = 80$$

$$10\% \text{ of } \underline{\quad} = 135$$

$$25\% \text{ of } 120 =$$

$$25\% \text{ of } 360 =$$

$$25\% \text{ of } \underline{\quad} = 40$$

$$25\% \text{ of } \underline{\quad} = 160$$

$$20\% \text{ of } 120 =$$

$$20\% \text{ of } 150 =$$

$$20\% \text{ of } \underline{\quad} = 45$$

$$20\% \text{ of } \underline{\quad} = 240$$

INTELLIGENT PRACTICE ANSWERS



$$10\% \text{ of } 200 = 20$$

$$10\% \text{ of } 400 = 40$$

$$10\% \text{ of } 800 = 80$$

$$10\% \text{ of } 1350 = 135$$

$$25\% \text{ of } 120 = 30$$

$$25\% \text{ of } 360 = 90$$

$$25\% \text{ of } 160 = 40$$

$$25\% \text{ of } 640 = 160$$

$$20\% \text{ of } 120 = 24$$

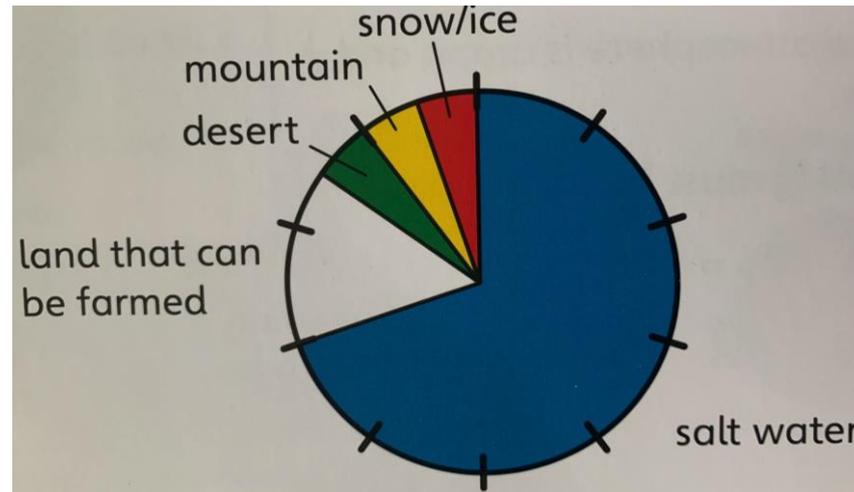
$$20\% \text{ of } 150 = 30$$

$$20\% \text{ of } 225 = 45$$

$$20\% \text{ of } 1200 = 240$$

DIVE DEEPER 1

1) The pie chart shows the percentage of Earth's surface is covered by the different features.



What are the percentages shown for each section of the pie chart?

2) Andy produced this pie chart to show what he ate during the week.

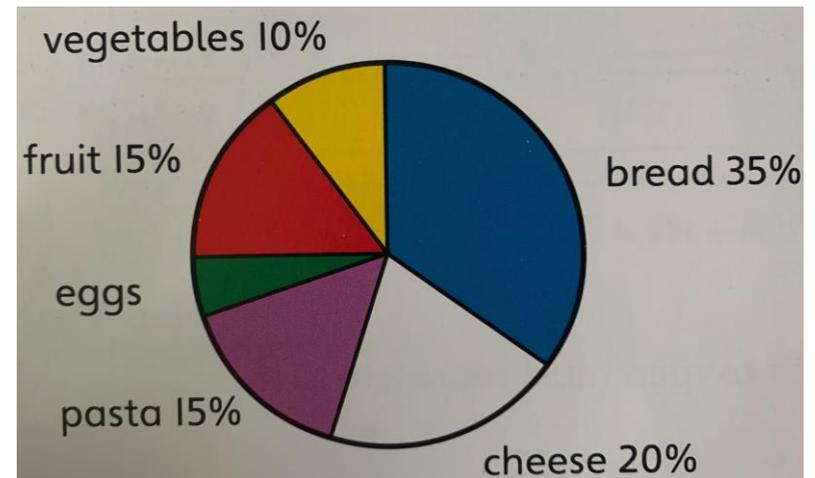
True or False?

More than one third of his food was bread.

Out of every 250g, 50g was cheese.

1/3 of his food was fruit and vegetables.

He ate three times as much pasta as eggs.



DIVE DEEPER 1 ANSWERS

1) The pie chart shows the percentage of Earth's surface is covered by the different features.

What are the percentages shown for each section of the pie chart?

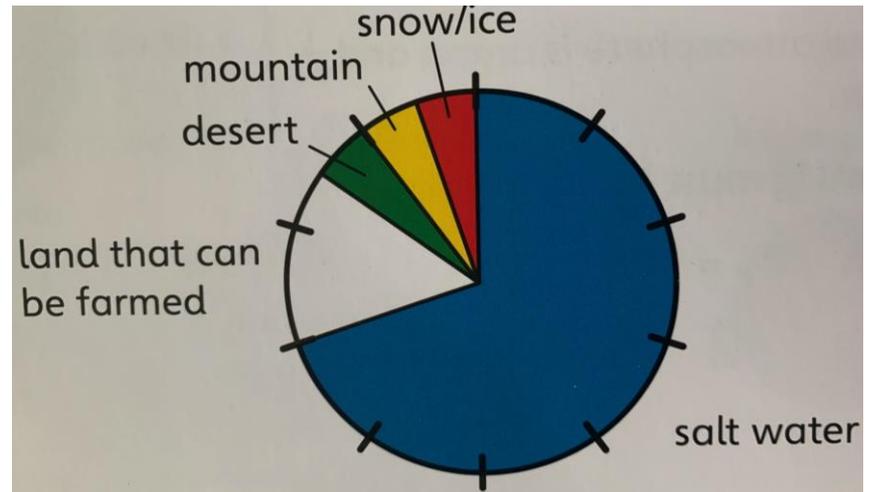
Salt water = 70%

Land that can be farmed = 15%

Desert = 5%

Mountain = 5%

Snow/ice = 5%



2) Andy produced this pie chart to show what he ate during the week.

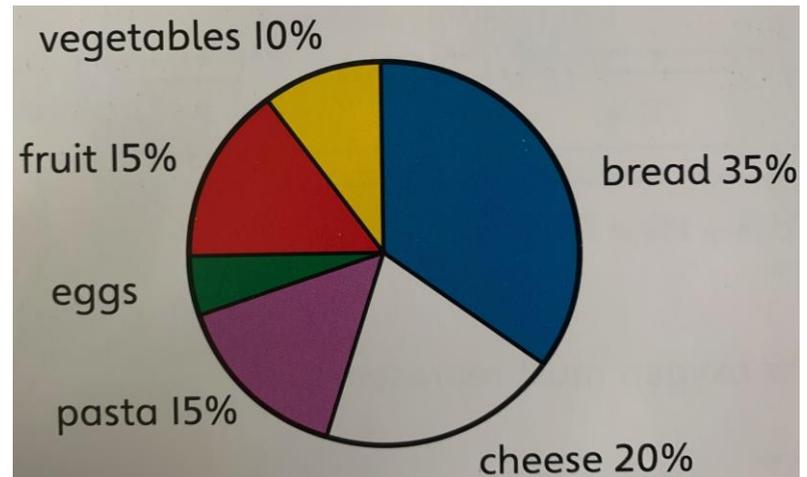
True or False?

More than one third of his food was bread. **T**

Out of every 250g, 50g was cheese. **F**

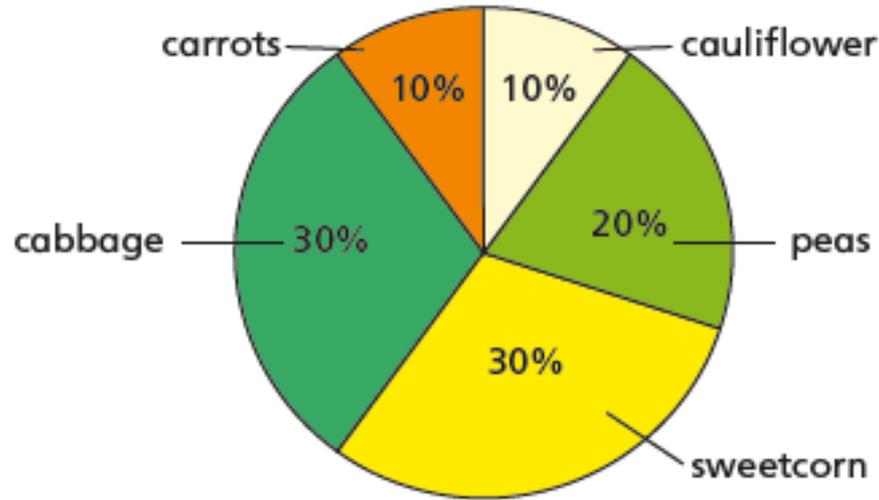
1/3 of his food was fruit and vegetables. **F**

He ate three times as much pasta as eggs. **T**



DIVE DEEPER 2

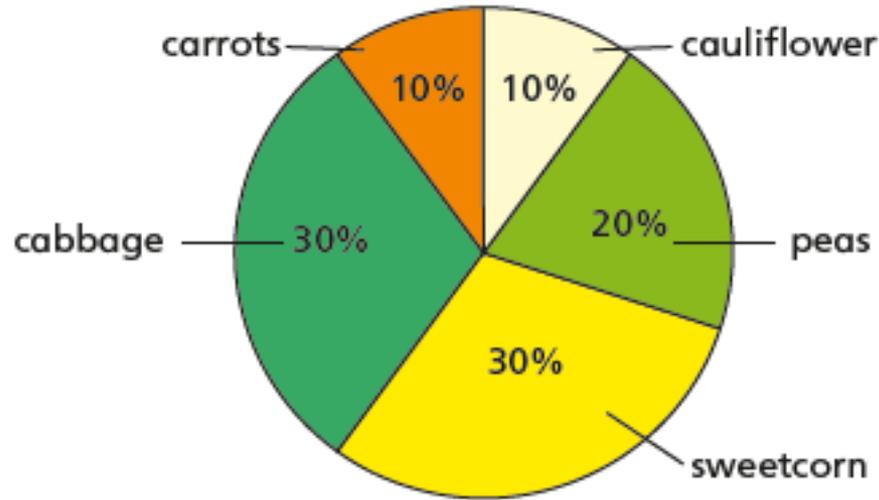
3) 60 children were asked to choose their favourite vegetable from five options.



- Work out the number of children who chose each vegetable.
- How many more people chose peas than cauliflower?
- How many more people chose sweetcorn or cabbage than chose carrots?

DIVE DEEPER 2 ANSWERS

3) 60 children were asked to choose their favourite vegetable from five options.



a) Work out the number of children who chose each vegetable.

Cauliflower = 6

Peas = 12

Sweetcorn = 18

Cabbage = 18

Carrots = 6

b) How many more people chose peas than cauliflower? 6

c) How many more people chose sweetcorn or cabbage than chose carrots? 12

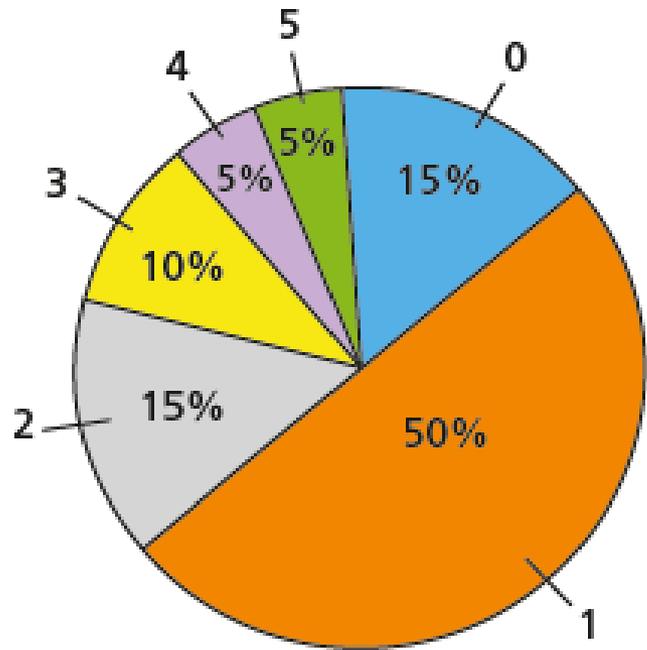
DIVE DEEPER 3

4) 160 people were asked how many siblings they have.

The results are shown in this pie chart.

Complete the table below.

Siblings	Frequency (how many people have this amount of siblings)



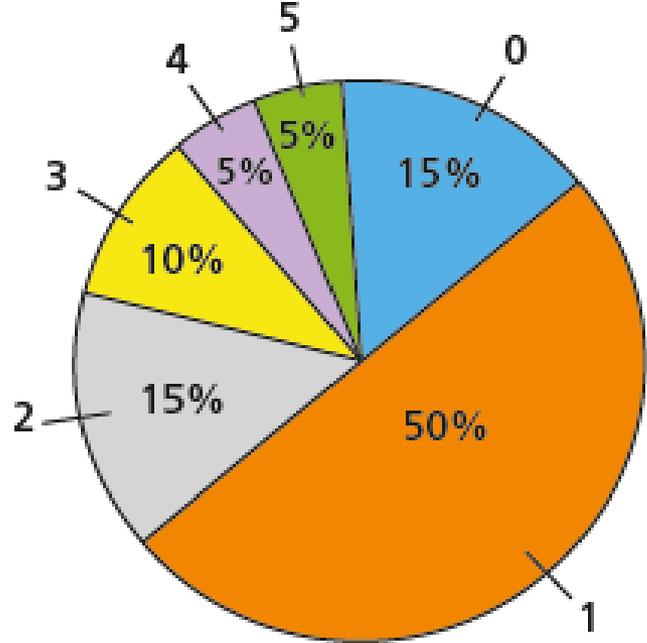
DIVE DEEPER 3 ANSWERS

4) 160 people were asked how many siblings they have.

The results are shown in this pie chart.

Complete the table below.

Siblings	Frequency (how many people have this amount of siblings)
0	24
1	80
2	24
3	16
4	8
5	8

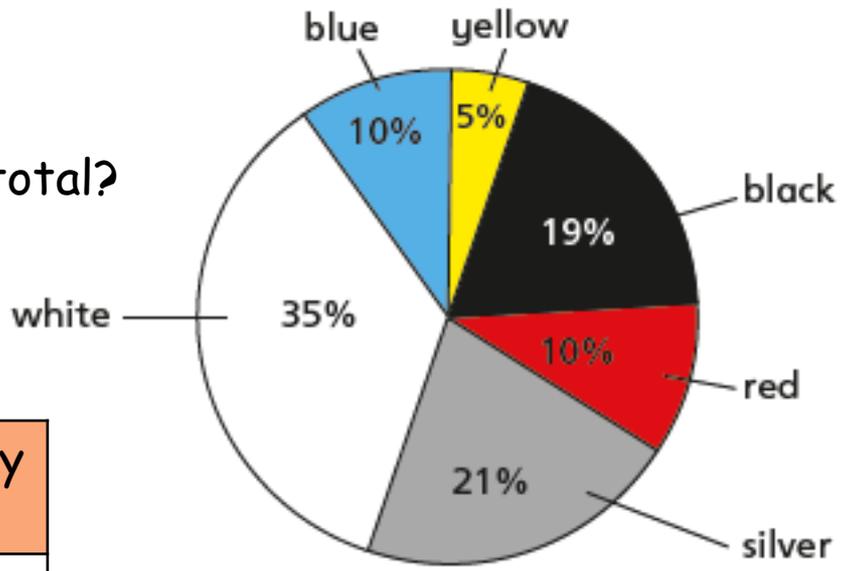


DIVE DEEPER 4

5) The pie chart shows the colours of cars in a car park on one day.

There were 30 yellow cars.

- a) How many cars were in the car park in total?
- b) Complete the table.



Colour of car	Percentage	Frequency
Yellow	5%	30
Black		
Red		
Silver		
White		
Blue		

DIVE DEEPER 4 ANSWERS

5) The pie chart shows the colours of cars in a car park on one day.

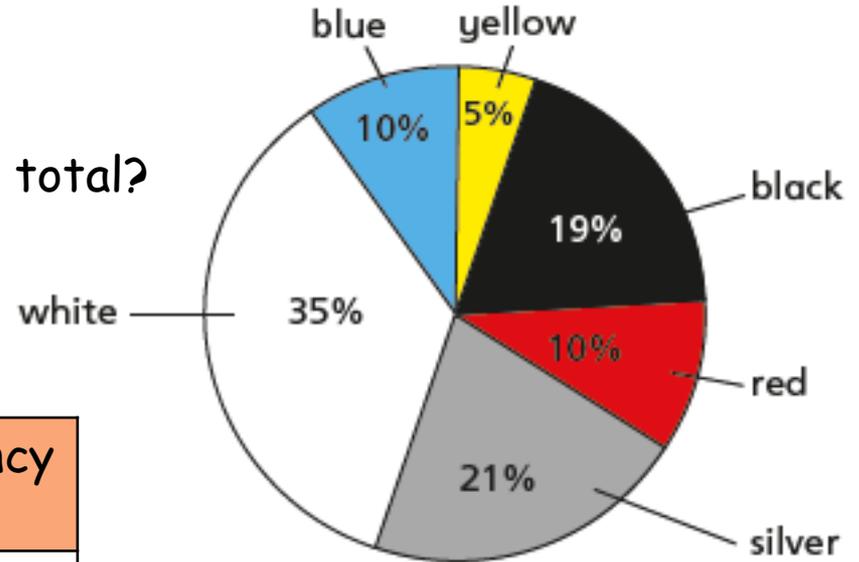
There were 30 yellow cars.

a) How many cars were in the car park in total?

600 cars

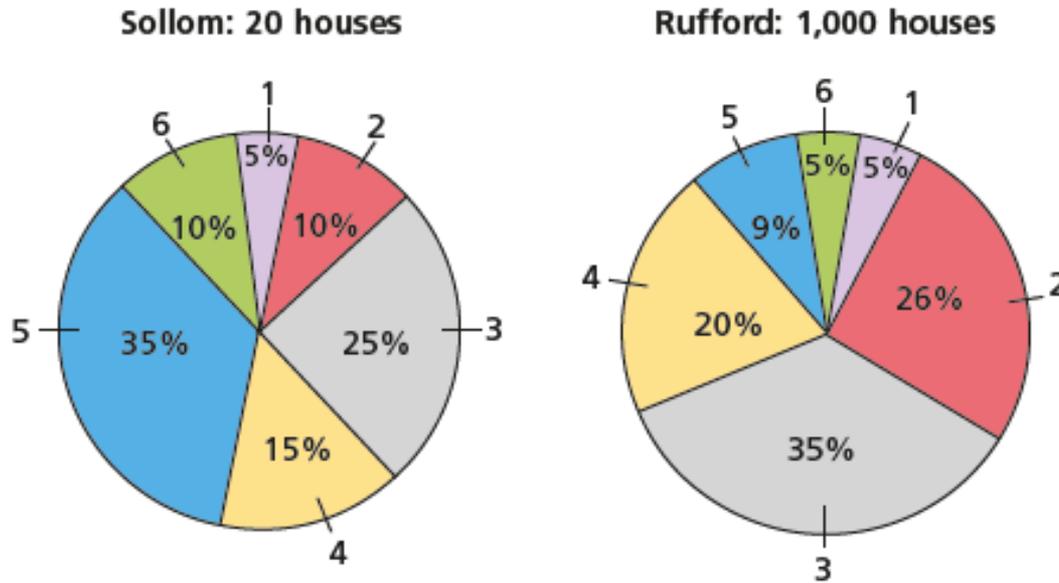
a) Complete the table.

Colour of car	Percentage	Frequency
Yellow	5%	30
Black	19%	114
Red	10%	60
Silver	21%	126
White	35%	210
Blue	10%	60



DIVE DEEPER 5

6) The pie chart show the number of bedrooms in the houses in Sollom and Rufford.



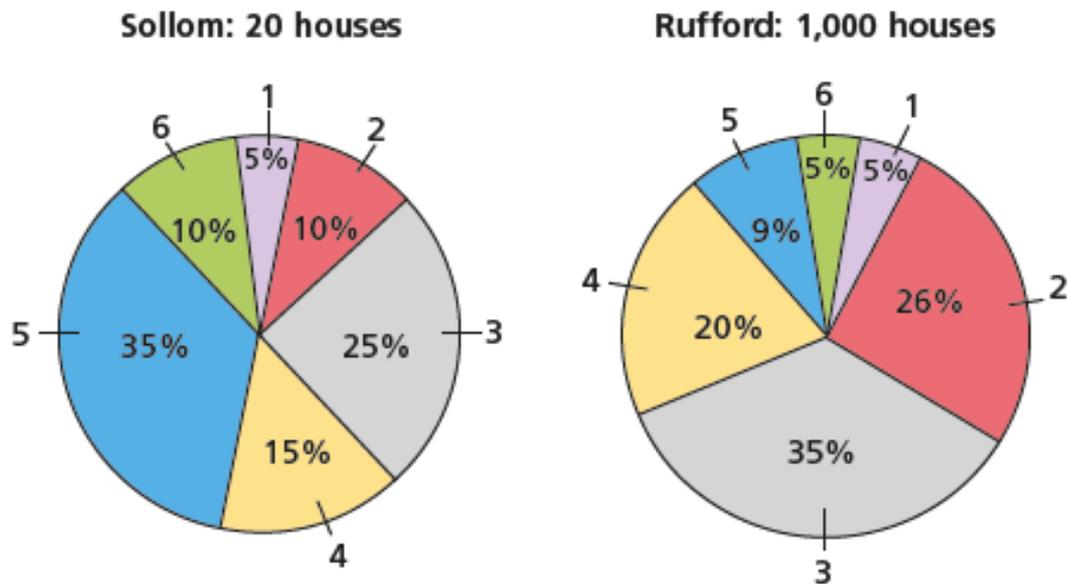
a) Alex says that, 'There are twice as many six-bedroom houses in Sollom than in Rufford because 10% is double 5%.'

Do you agree? Explain your answer.

b) How many more one-bedroom houses are there in Rufford compared to Sollom?

DIVE DEEPER 5 ANSWERS

6) The pie chart show the number of bedrooms in the houses in Sollom and Rufford.



a) Alex says that, 'There are twice as many six-bedroom houses in Sollom than in Rufford because 10% is double 5%.'

Do you agree? **No because the totals are not equal therefore the 10% is not double 5%.**

b) How many more one-bedroom houses are there in Rufford compared to Sollom? **There are 49 more one-bedroom houses in Rufford than Sollom.**

SELF-ASSESSMENT

- Some will even be able use data and fractions to work out how many were in the data set originally
 - Some will be able to relate pie charts to simple fractions
 - Most will be able to read pie charts using the simple fractions
 - All will be able read pie charts where one segment represents one vote
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