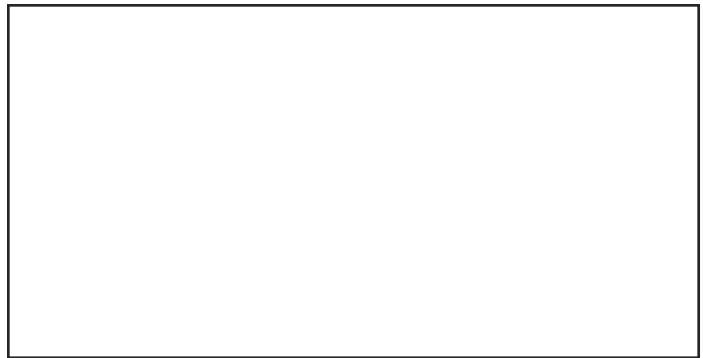
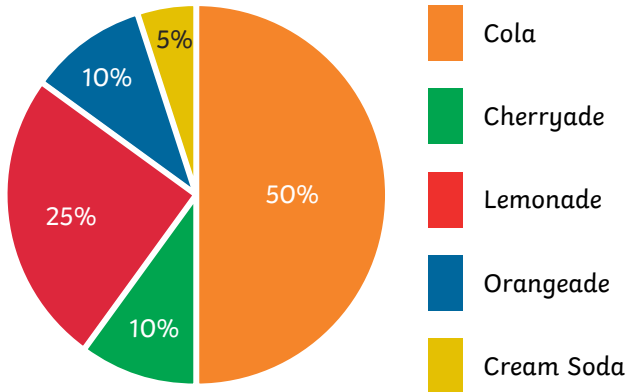




1) 260 children were asked to choose their favourite soft drink. This pie chart shows the results:

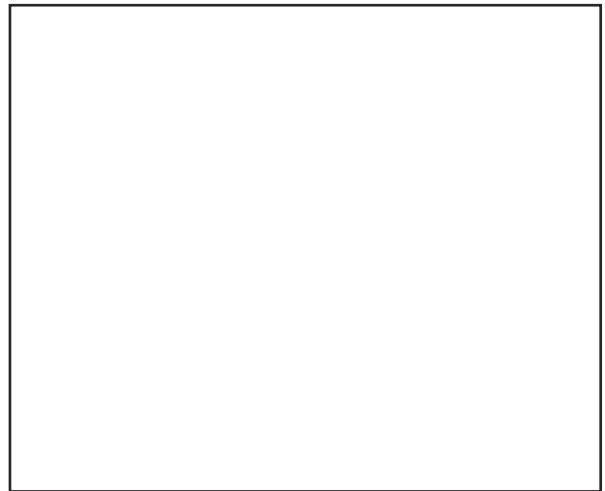
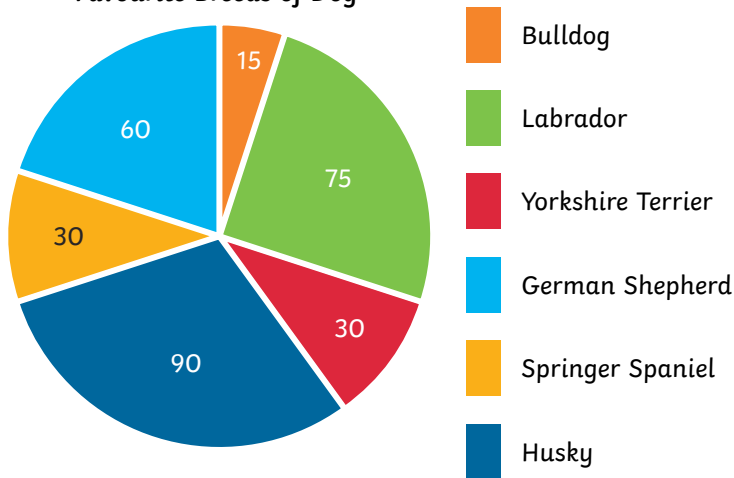
Favourite Soft Drinks



Decide if the following statements are true or false.

- a) $\frac{1}{4}$ of the children chose lemonade as their favourite drink. _____
 - b) 140 children chose cola. _____
 - c) 15 more children chose orangeade than cream soda. _____
 - d) 169 children in total chose either cherryade, cream soda or cola as their favourite drink. _____
- 2) 300 people were asked to choose their favourite breed of dog. This pie chart shows the results:

Favourite Breeds of Dog

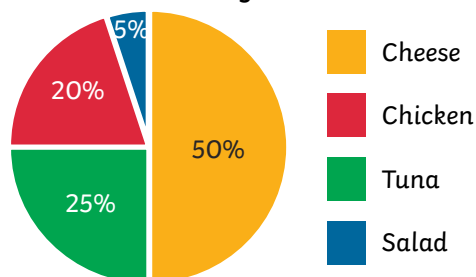


- a) How many people chose a labrador as their favourite breed of dog? _____
- b) How many more people chose a husky than a springer spaniel? _____
- c) How many people in total chose either a Yorkshire terrier, bulldog or German shepherd as their favourite breed of dog? _____
- d) What percentage of people chose husky and labrador altogether? _____

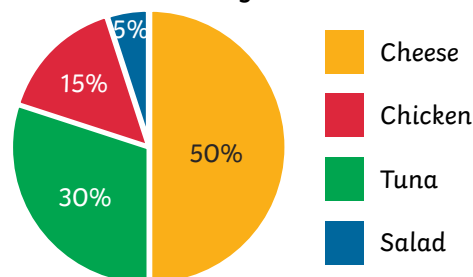


- 1) 220 year 5 children and 180 year 6 children were asked what their favourite sandwich filling was. The results are shown in these pie charts:

Favourite Sandwich Filling in Year 6



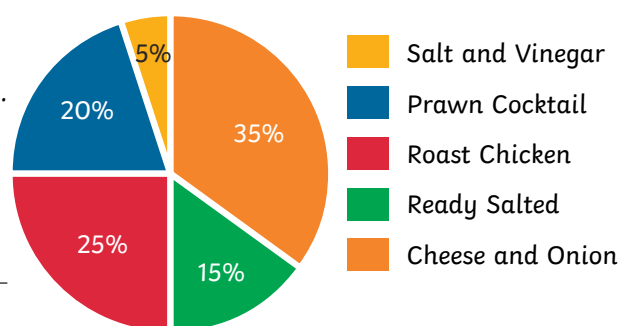
Favourite Sandwich Filling in Year 5



Explain whether or not you agree with each of these statements about the pie charts, giving reasons.

- a) The same number of children in each year group chose cheese as their favourite sandwich filling.
-
- b) More children in year 5 chose tuna than in year 6.
-
- c) The same percentage of children in year 5 chose tuna and salad altogether as chose tuna in year 6.
-
- d) 18 more children chose chicken in year 5 than year 6.
-

- 2) 200 people were asked to choose their favourite crisp flavour. The results are shown in this pie chart. Explain whether or not you agree with each child's reasoning about the pie chart.

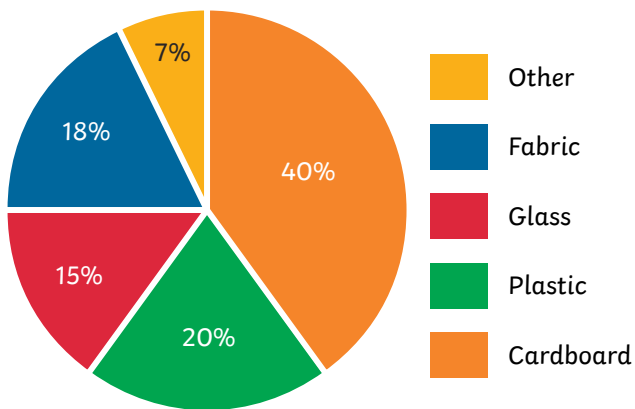


- a) Olivia knows that 25% of people chose roast chicken. She thinks that, as $200 \div 25 = 8$, eight people chose roast chicken.
-
-
- b) Jack thinks that 12 people chose salt and vinegar as their favourite crisp flavour.
-
-
- c) Amena thinks that $\frac{1}{5}$ of children chose prawn cocktail as their favourite flavour.
-
-
- d) Hamza thinks that 30 more people chose cheese and onion than ready salted as their favourite flavour.
-
-

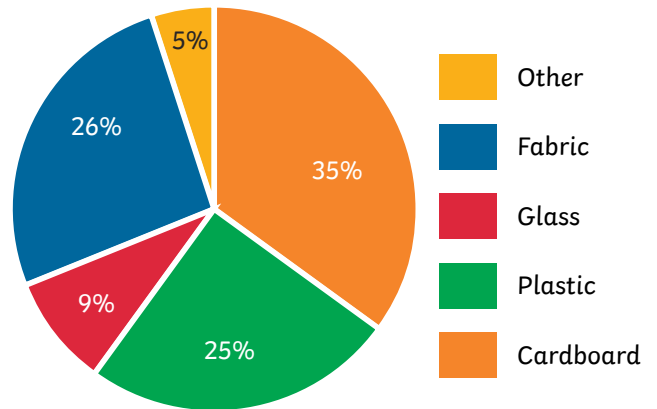
These pie charts show the different percentages of recycled materials that were collected in two years:



2017 Recycling



2018 Recycling



- 1) If 200 tonnes of recycling in 2018 was 'other' materials, how many tonnes of recycling were collected in total that year?

- 2) If 3000 tonnes of recycling was collected in total during 2017, calculate the quantities collected of the following materials:

a) cardboard _____	d) fabric _____
b) plastic _____	e) other _____
c) glass _____	

- 3) Compare the two pie charts to answer the following questions.
 - a) In which year was the larger quantity of cardboard collected? By how many tonnes was it larger? _____
 - b) In which year was the larger quantity of glass collected? By how many tonnes was it larger? _____
 - c) Which material saw the greatest difference in the quantity that was collected between the two years? _____
 - d) In 2016, the total quantity of recycling collected was 15% lower than 2017. How many tonnes of recycling was collected in 2016? _____

- 4) Write your own questions comparing the two pie charts.

