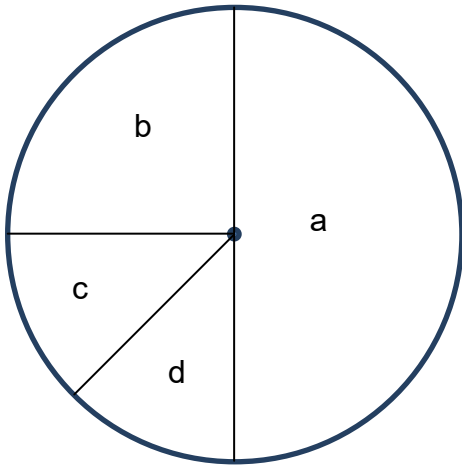




I love all sorts of pies; steak, chicken, pork. Yummy!
I also like pie charts, but they can be quite tricky to work with, so here is a simple introduction.



40 children go to school.

a: walk b: bus c: car d: bike

A pie chart is a bit like a pie. It is a different way of displaying data, usually percentages or fractions of a whole amount.

A pie chart is a circle which has been divided up into slices cut from the middle to the edge.

The slices do not have to be the same size – the bigger the slice the bigger the amount it represents.

Look at the pie chart on the left. It shows how 40 children go to school.

1. From the pie chart can you work out how many children walk to school?

Slice **a** is half the circle, so half the 40 children walk to school.

Answer:

2. From the pie chart can you work out how many children catch the bus to school?

Slice **b** is quarter of the circle, so a quarter of the 40 children catch the bus to school.

Answer:

3. From the pie chart can you work out how many children go to school in a car?

Slice **c** is half of a quarter, which is an eighth of the whole, so one eighth of the 40 children go to school in a car.

Answer:

4. From the pie chart can you work out how many children go to school by bike.

Slice **d** is the same size as slice c.

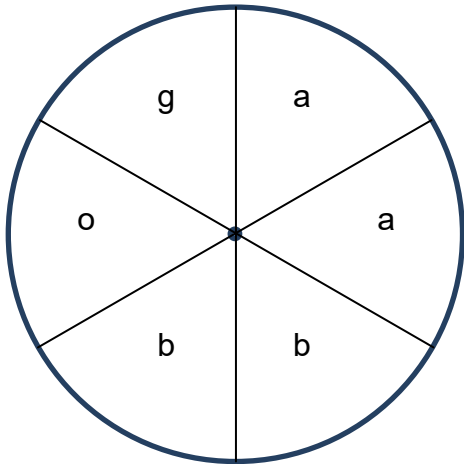
Answer:

This is a very easy pie chart because it is divided exactly into a half, a quarter and eighths. To understand more about pie charts you need to know that there are 360° in a circle and you will also need to know how to use a protractor.



Here is a pie chart that shows children's favourite fruit.
It has been cut into 6 equal slices.
Remember, a full circle has 360° so each slice will have an angle of $360 \div 6$ which is 60° .

The pie chart represents the choices of 60 children.



a = apples b = bananas o = oranges g = grapes

1. How many children are represented by one slice?

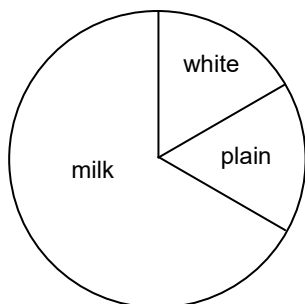
Write how you know this.
.....

2. How many children chose bananas?

3. How many children chose grapes?

Pie charts are often coloured to show clearly the proportions. Colour the above pie chart to show the proportions of each fruit.

120 children were asked which kind of chocolate they liked. The pie chart below shows the results.



One small slice is 60° .

4. What fraction of 360° is 60° ?

5. From this, work out how many children chose white chocolate?

6. How many children chose plain chocolate?

7. What is the angle measurement for milk chocolate?

8. How many children chose milk chocolate?