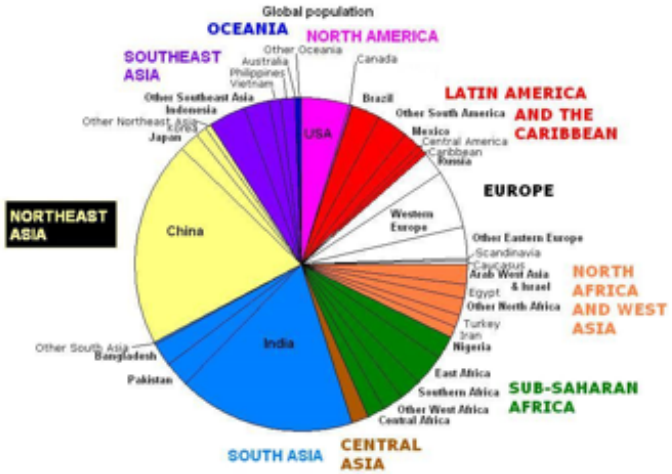
LO: To read and interpret pie charts

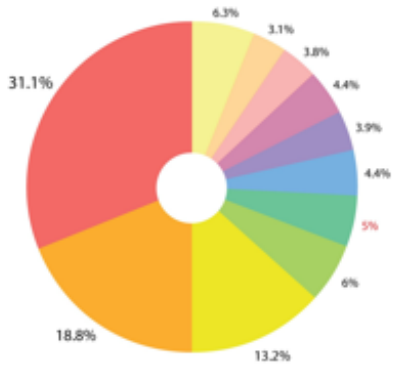
we do

What is a pie chart? What sort of data is it used for?





United Kingdom 2016-17 Government Expenditure



- Social Protection - £240bn
- Health - £145bn
- Education - £102bn
- Defence - £46bn
- Government Debt Interest - £39bn
- Public Order and Safety - £34bn
- Personal Social Services - £30bn
- Housing and Environment - £34bn
- Transport - £29bn
- Industry, agriculture and employment - £24bn
- Other (includes EU contributions) - £49bn

Expenditure figures taken from page 5, *Budget 2016*, 16 March 2016, HM Govt

Total 2016-17 Government Expenditure: £772 billion

I do

What is a pie chart?

A pie chart is a type of graph that illustrates how different types of data fit into a whole.

Pie charts are a great way to visually represent percentages or proportional data.

What sort of data is it used for?

Pie Charts show proportional data.

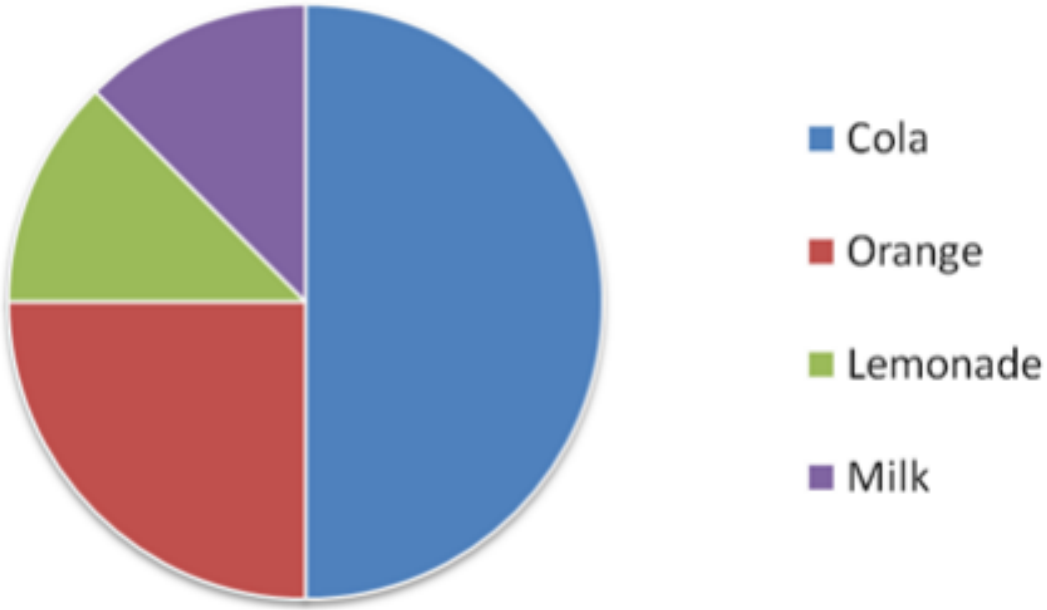
The whole circle is equal to all the pieces of data, or 100%.

It could be used to show population, favourite subjects or how children travel to school.

LO: To read and interpret pie charts

I do

A pie chart to show children's favourite drinks.



Altogether 40 children were asked what their favourite drink is.

The pie chart shows...

The most popular drink was..... I know this because.....

The least popular drink was..... I know this because.....

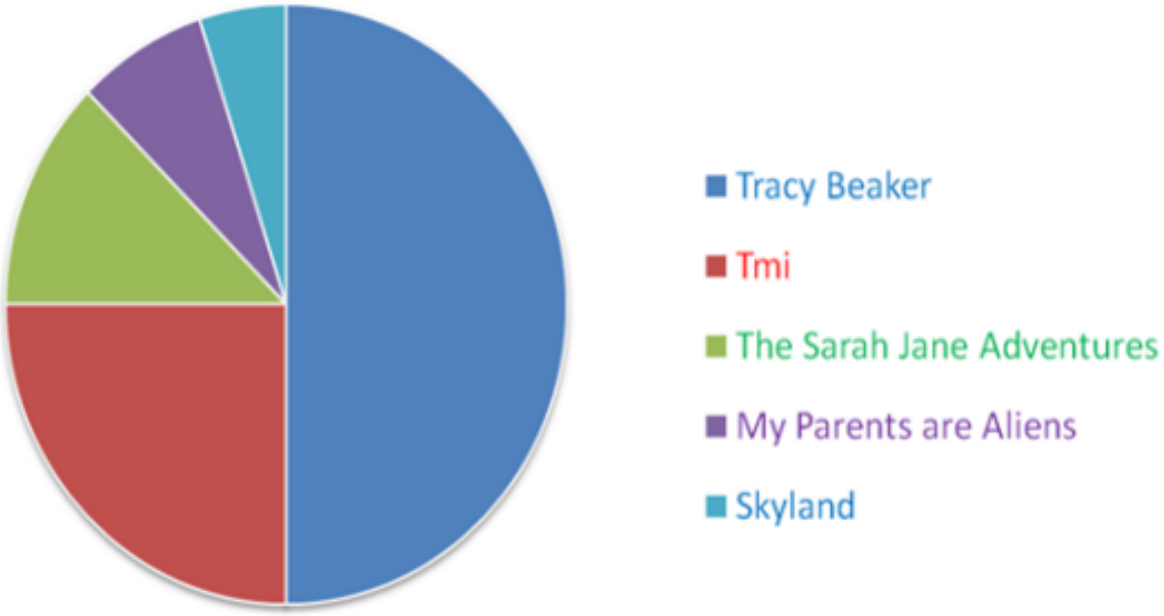
... children chose ..... as their favourite drink.

The data shows...

Write **2** sentences about the pie chart on your whiteboard.

we do

A pie chart to show children's favourite TV programs.



Altogether 80 children were asked what their favourite TV show is.

The pie chart shows...

The most popular show was..... I know this because.....

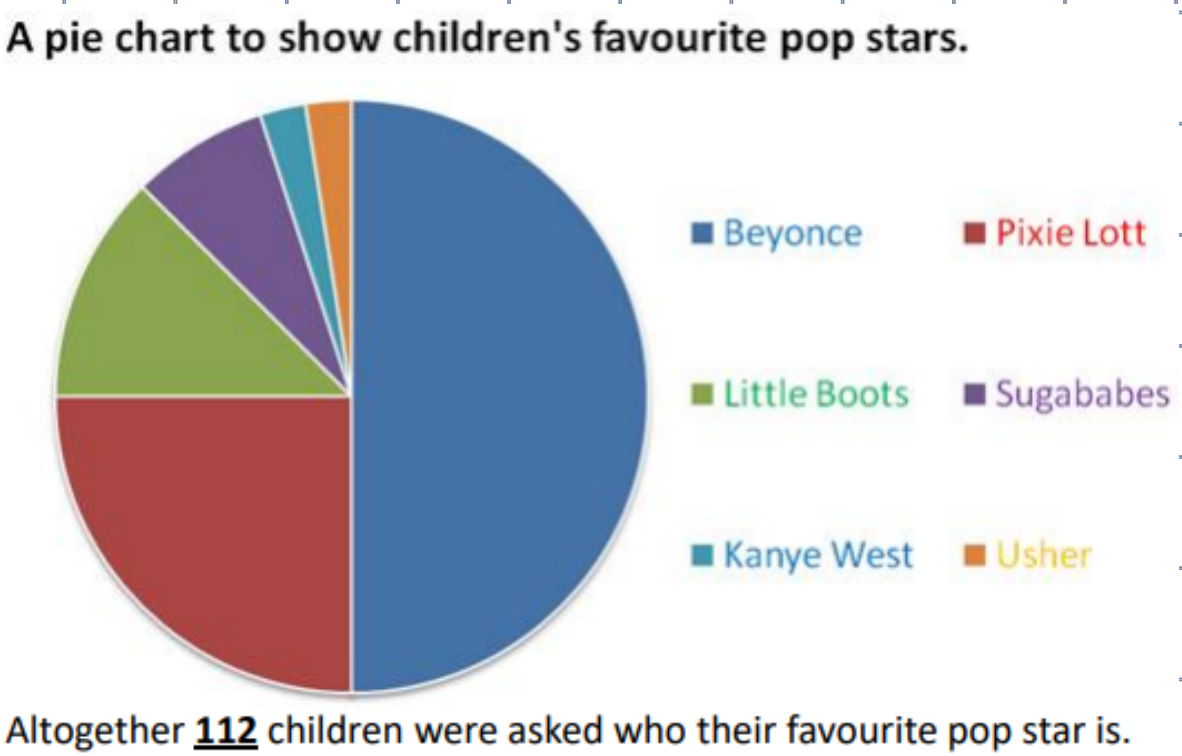
The least popular show was..... I know this because.....

... children chose ..... as their favourite show.

The data shows...

you do

Write **5** sentences about the pie chart in your book.



The pie chart shows...

The most popular pop star was..... I know this because.....

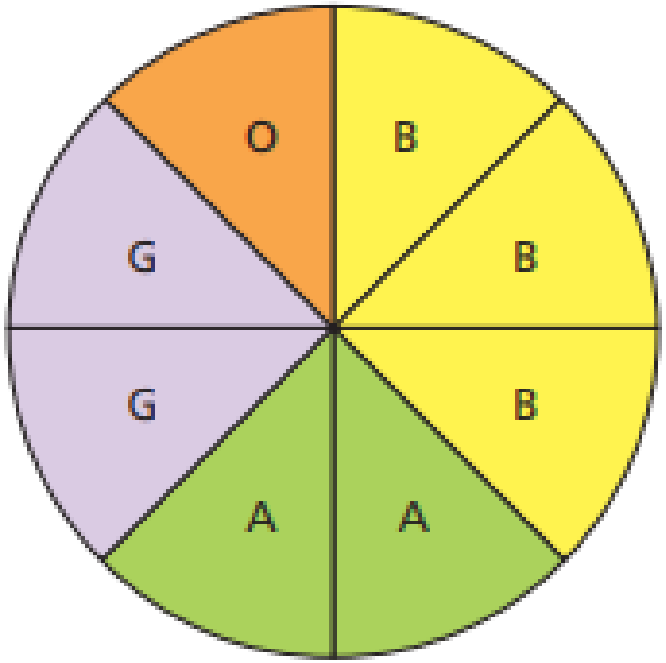
The least popular pop star was..... I know this because.....

... children chose ..... as their favourite pop star.

The data shows...

we do

The pie chart shows the favourite fruit of 48 children.



banana (B)

apple (A)

grapes (G)

orange (O)

a) How many children chose banana?

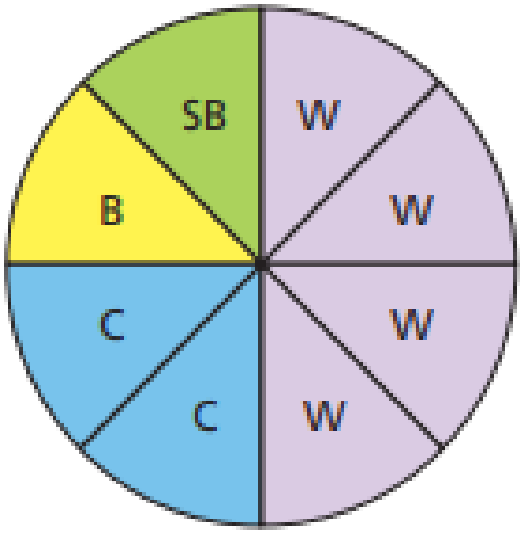
b) How many children chose apple?

c) What fraction of the children chose orange?

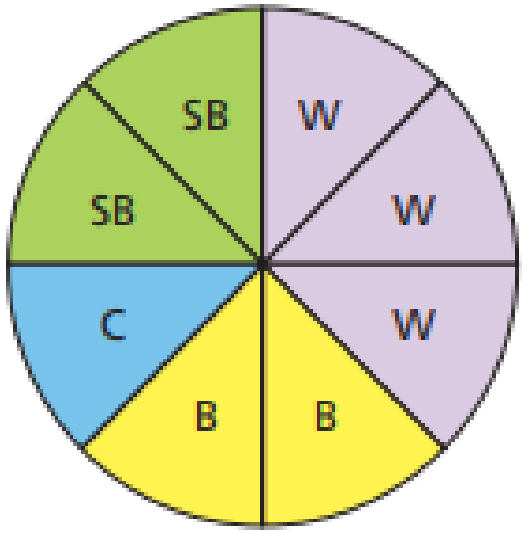
d) What fraction of the children chose grapes?

we do

Hockton Primary:
160 children



Turleton Academy:
320 children



car (C)

bike (B)

school bus (SB)

walk (W)

More children from Hockton Primary come by car to school because more pieces show 'car'.

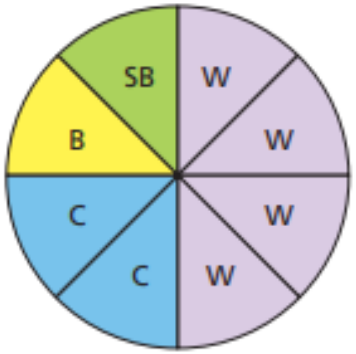
you do

Complete in books.

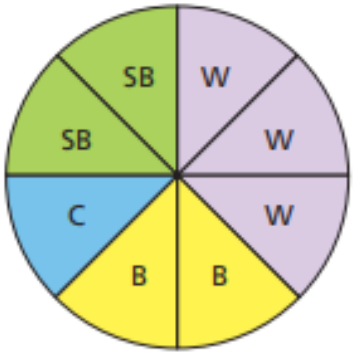
Children from two schools were asked how they travel to school.

The results are shown in the pie charts.

Hockton Primary:
160 children



Turleton Academy:
320 children



car (C)

bike (B)

school bus (SB)

walk (W)

a)



More children from Hockton Primary walk to school because more pieces show 'walk'.

Do you agree with Tommy?

Explain your answer.

b) How many children from each school travel by car?

we do

Pink Highlighter ready.....let's mark!

a)



More children from Hockton Primary walk to school because more pieces show 'walk'.

Do you agree with Tommy? No

Explain your answer.

There are more children at Turleton Academy, 120 walked whereas only 80 from Hockton did.

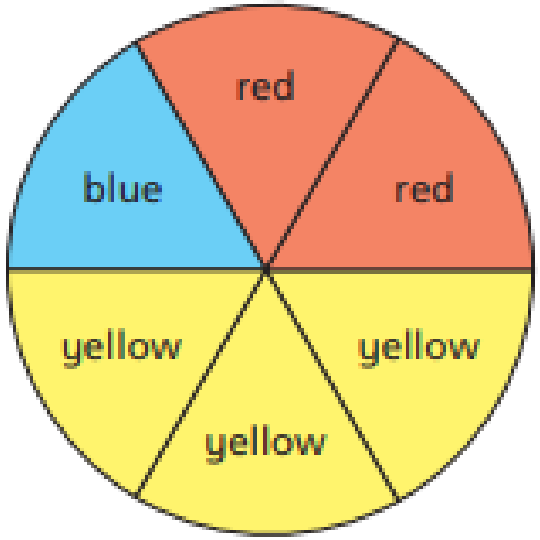
b) How many children from each school travel by car?

Hockton Primary	40
Turleton Academy	40

we do

A bag contains red, yellow and blue counters.

The pie chart shows the proportion of counters of each colour.



There are half as many _____ counters

as _____ counters.

There are three times as many _____ counters

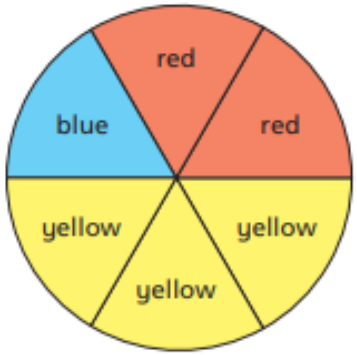
as _____ counters.

you do

Complete in books.

A bag contains red, yellow and blue counters.

The pie chart shows the proportion of counters of each colour.



a) There are 30 red counters in the bag.

How many counters are in the bag in total?

b) What is the difference between the number of blue counters and the number of yellow counters?

c) Complete the sentences.

There are half as many _____ counters

as _____ counters.

There are three times as many _____ counters

as _____ counters.

we do

Pink Highlighter ready.....let's mark!

a) There are 30 red counters in the bag.

How many counters are in the bag in total?

90 counters

b) What is the difference between the number of blue counters and the number of yellow counters?

30 counters

c) Complete the sentences.

There are half as many blue counters

as red counters.

There are three times as many yellow counters

as blue counters.