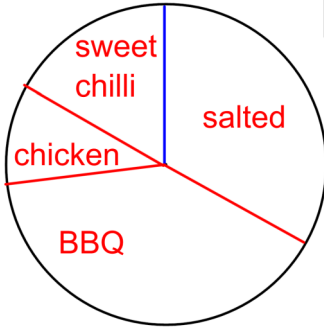


lots of DATA 5 ANSWERS

A survey is done on the favourite flavour of crisps.

The results are in the table below.
Draw a pie chart.

Flavour	Frequency	Angle
Salted	10	120
BBQ	12	144
Chicken	3	36
Sweet Chilli	5	60

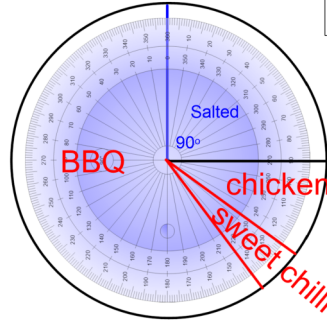


Always work out what 1 represents
30 is 360°
1 is 12°

A survey is done on the favourite flavour of crisps.

The results are in the table below.
Draw a pie chart and fill in the table.

Flavour	Frequency	Angle
Salted	5	90°
BBQ	12	216
Chicken	2	36
Sweet Chilli	1	18

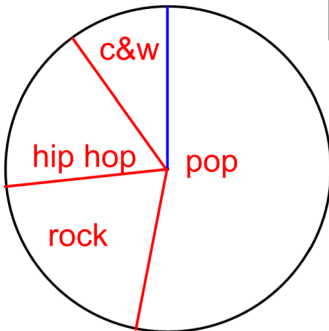


Always work out what 1 represents
5 is 90°
1 is 18°

A survey is done on the favourite type of music.

The results are in the table below.
Draw a pie chart.

Type	Frequency	Angle
Pop	32	192
Rock	12	72
Hip Hop	10	60
Country & Western	6	36

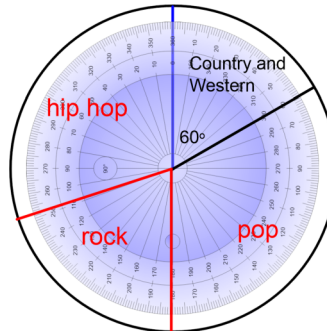


Always work out what 1 represents
60 is 360°
1 is 6°

A survey is done on the favourite type of music.

The results are in the table below.
Draw a pie chart and fill in the table.

Type	Frequency	Angle
Pop	20	120
Rock	12	72°
Hip Hop	18	108
Country & Western	10	60°

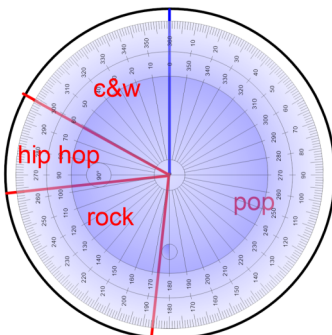


Always work out what 1 represents
10 is 60°
1 is 6°

A survey is done on the favourite type of music.

The results are in the table below.
Draw a pie chart.

Type	Percentage	Angle
Pop	52%	187.2
Rock	21%	75.6
Hip Hop	10%	36
Country & Western	17%	61.2

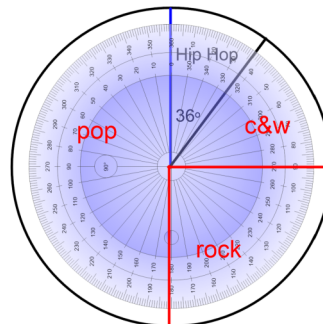


Always work out what 1 represents
100% is 360°
1% is 3.6°

A survey is done on the favourite type of music.

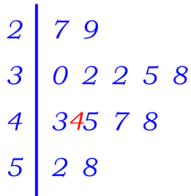
The results are in the table below.
Draw a pie chart and fill in the table.

Type	Percentage	Angle
Pop	50%	180
Rock	25%	90
Hip Hop	10%	36°
Country & Western	15%	54



Always work out what 1 represents
10% is 36°
1% is 3.6°

Time to run 200m



Key 2 | 7 means 27secs

This stem and leaf shows the times taken by some Yr 11 students to run 200m.

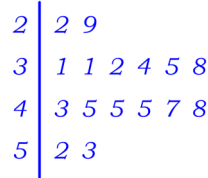
What was the shortest time?

Shortest = 27 secs

What was the range of times?

Range = 58 - 27 = 31secs

Another student ran in 44 seconds. Add this result to the stem and leaf.



Key 2 | 9 means 29cm

This stem and leaf shows the length of a snake.

What is the modal length?

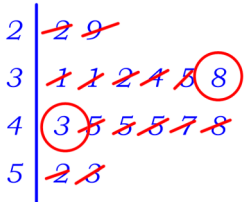
Modal = 45cm

What is the range of the lengths?

Range = 53 - 22 = 31cm

Another snake is measured. When this is added to the stem and leaf diagram the range changes to 40cm. What length could this new result be?

Could be 62cm because 62-22=40 or 13cm because 53-13=40



Key 2 | 9 means 2.9 secs

This stem and leaf shows the reaction times for 16 three-toed sloths.

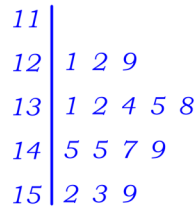
What is the median reaction time?

Median = 4.05cm

What is the probability that a sloth picked at random will take more than 3.0 seconds?

Prob(more than 3.0) = 14/16

25% of these times are higher than 4.5cm



Key 12 | 9 means 12.9cm

These are the distances that 14 fleas can jump.

Did any flea jump 13.2cm?

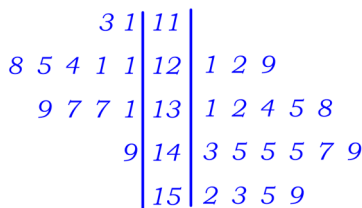
Yes.

What is the range of values?

Range = 15.9 - 12.1 = 3.8cm

What is the probability that a flea could jump higher than 10cm?

Probability = 1 because they all jumped higher than 10cm



Key 8 | 12 | 9 means BOY 128cm and GIRL 129cm

These are the heights of some boys and girls in a youth club.

How many boys were measured?

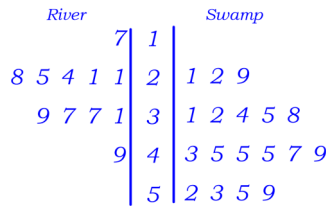
12 boys

Did any girls measure 122cm tall?

Just one girl

What is the range of the boys heights?

Range = 149 - 111 = 28cm



Key 8 | 2 | 9 means 2.8cm and 2.9cm

These are the lengths (nearest cm) of 3 week old crocodiles which live in either the River or Swamp.

Find the median for both locations.

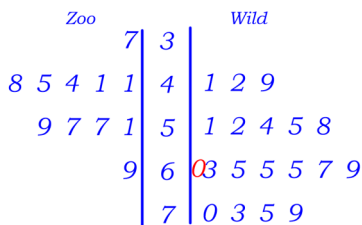
Median boys=2.8cm girls=4.4cm

Find the range for the Swamp.

Range = 5.9 - 2.1 = 3.8cm

Compare the lengths for the 2 locations.

The swamp has the longer crocodiles.



Key 8 | 3 | 9 means 38cm and 39cm

These are the lengths (nearest cm) of bush babies which live in either the Zoo or the Wild

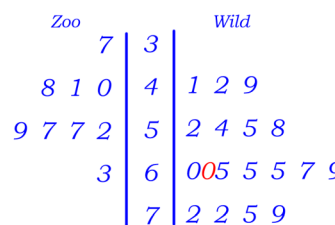
Find the range for both locations.

Range Zoo = 42cm Wild = 38cm

Another bush baby is found in the wild. It is 60 cm long. Add it to the diagram.

Compare the lengths for the 2 locations.

The bush babies in the Zoo are smaller than those in the Wild.



Key 8 | 3 | 9 means 3.8cm and 3.9cm

These are the lengths (nearest cm) of pigmy snakes which live in either the Zoo or the Wild

Find the range for both locations.

Range Zoo = 2.6cm Wild = 3.8cm

Another pigmy snake is found in the wild. It is 6.0 cm long. Add it to the diagram

Compare the lengths for the 2 locations.

The pigmy snakes in the Zoo are smaller than those in the Wild.