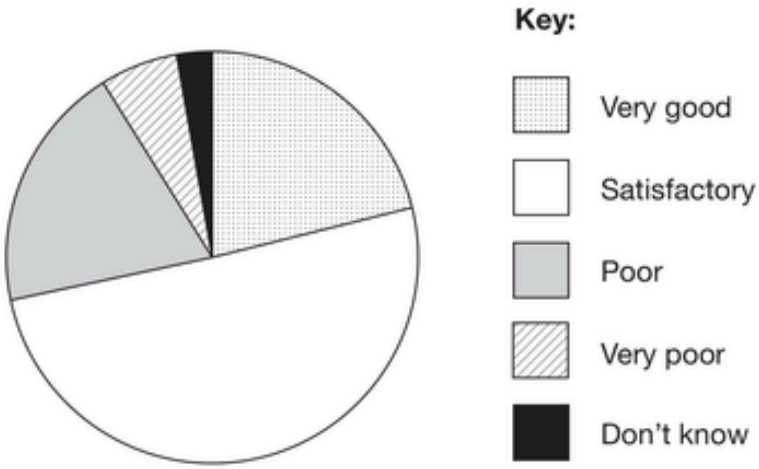
Statistics

Reading and interpreting charts, tables and averages is a core maths skill that comes up again and again in KS3 tests and GCSE papers!

The pie chart shows the results.



(a) About what percentage of the people said **'Satisfactory'**?

_____ %

1 mark

(b) Altogether, about what percentage of the people said **'Poor'** or **'Very poor'**?

_____ %

1 mark

(c) Give one reason why a person may say **'Don't know'**.

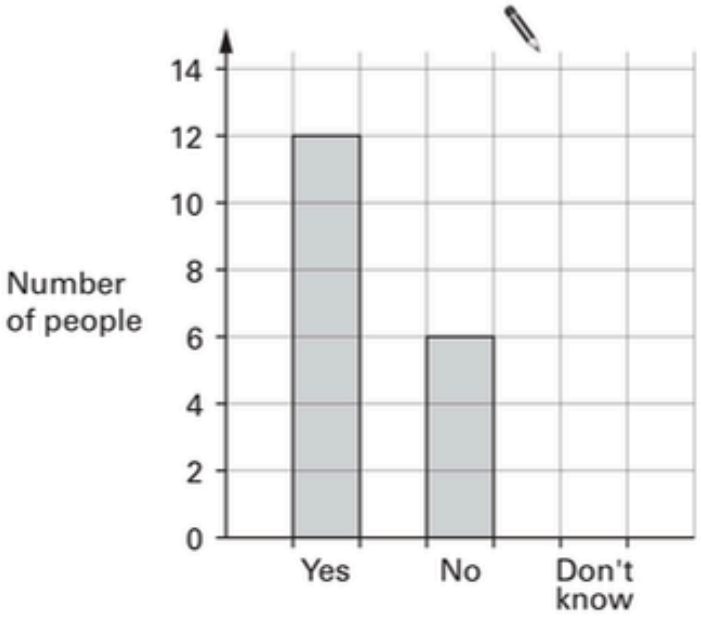
KS3 Maths SATs, Tier 4-6, Paper 1 (2009) - Q1

. (a) Jackie asked **27** people:

'Do you like school dinners?'

The bar chart shows her results for 'Yes' and 'No'.

Complete the bar chart to show her result for 'Don't know'.



1 mark

(b) This pictogram also shows her results for 'Yes' and 'No'.

Complete the pictogram to show her result for 'Don't know'.

Yes	○ ○ ○ ○
No	○ ○
Don't know	

1 mark

Modern Tuition

The table shows the temperatures in 10 cities on a day in December.

City	Temperature in °C
Athens	18
Barcelona	16
Berlin	7
Brussels	8
Dublin	9
Geneva	6
Madrid	12
Moscow	2
Paris	6
Rome	19

(a) Which temperature was the **mode**?



_____ °C

1 mark

(b) In a different city, the temperature was **5°C lower** than in **Moscow**.

What was the temperature in this city?



_____ °C

1 mark

Modern Tuition

A pupil recorded the times of **23** people running the 100 metres.
The stem-and-leaf diagram shows the results.

13	6					
14	1	3	4			
14	7	7	8	9		
15	0	1	1	3	4	4
15	5	7	8	8	9	
16	2	2	4	4		

Key:

13 | 6 represents 13.6 seconds

(a) Two of the people ran the 100 metres in **14.7 seconds**.

How many of them ran the 100 metres **faster** than this?

_____ people

1 mark

(b) What was the **range** of times?

seconds

2 marks

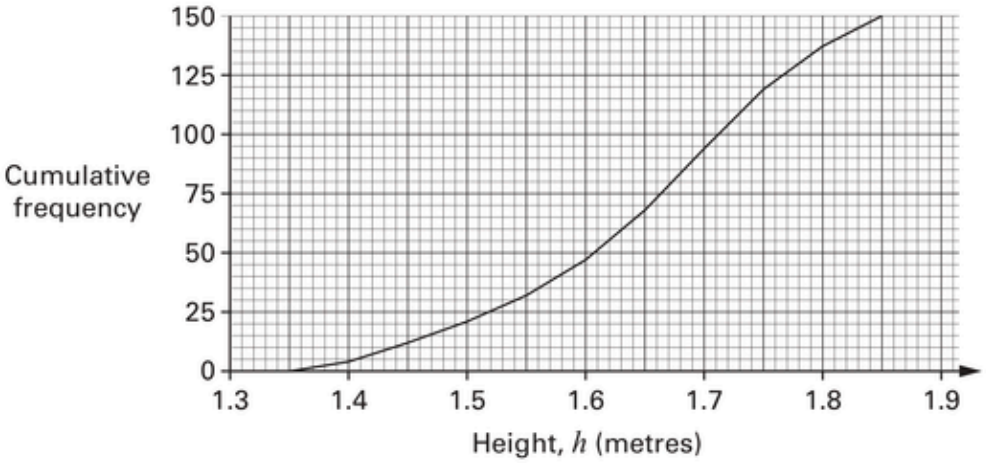
(c) What was the **median** time?

seconds

1 mark

Modern Tuition

The graph shows the heights of **150** fir trees.



The table shows the price of fir trees of different heights.

	$1.2\,\text{m} < h \leq 1.5\,\text{m}$	$1.5\,\text{m} < h \leq 1.75\,\text{m}$	$1.75\,\text{m} < h \leq 2\,\text{m}$
Cost	£18.00	£22.00	£26.00

Use this information to calculate the total price of the 150 fir trees.

You **must** show your working.

£

3 marks

Modern Tuition