

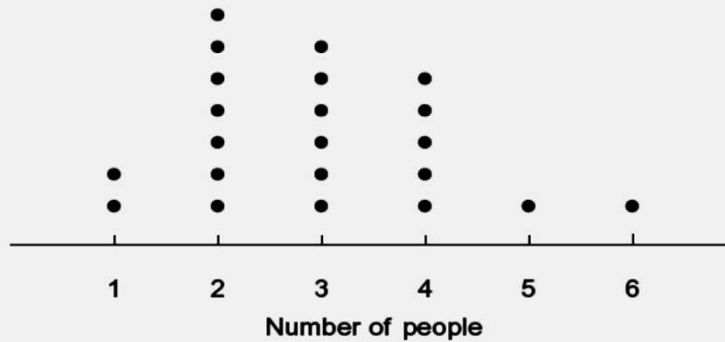
# GCSE Statistics - Diagnostic test

## Dot Plots and Bar Charts

NAME: \_\_\_\_\_

**1**

This dot plot shows the number of people living in the 22 houses in Trinity Street in 2009.



(a) How many people live alone?

Answer ..... (1 mark)

(b) Write down the modal number of people living in the houses.

Answer ..... (1 mark)

(c) Work out the range of the number of people living in the houses.

.....

Answer ..... (1 mark)

(d) In 1959, the modal number of people living in these houses was 4  
Also, in 1959, the range of the number of people was 7

(d) (i) Give two comparisons of the number of people living in these houses in 1959 and 2009.

Comparison 1 .....

.....

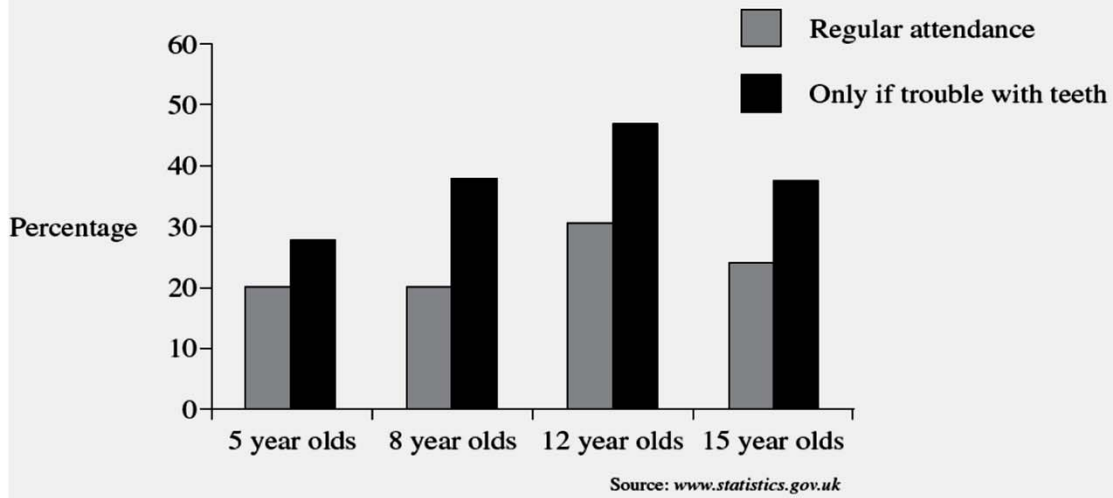
Comparison 2 .....

.....

(2 marks)

2

The diagram shows the percentages of children who visit the dentist at various ages, either regularly or only when they have trouble with teeth.



(a) What is the name of this type of diagram?

Answer ..... (1 mark)

(b) Using the information given, at what age do less than 50% of all children visit the dentist?

Answer ..... (1 mark)

(c) Consider the statement, 'more 15 year olds have **regular attendance** than 5 year olds'.

Is this statement True, False or Not possible to tell?

Give a reason for your answer.

Answer .....

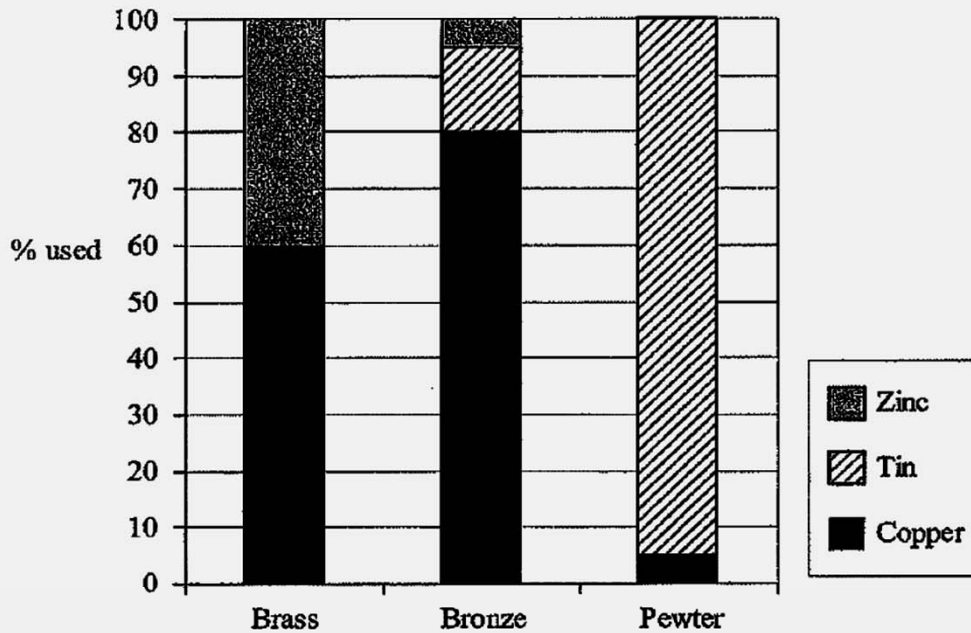
Reason .....

.....

(2 marks)

3

The composite bar charts show information about the metals used to make brass, bronze and pewter.



(Data source: [www.gizmoology.net](http://www.gizmoology.net))

Three of the following statements are true.

Tick ( ✓ ) the true statements.

Brass is made from three different metals	<input type="checkbox"/>
In pewter there is a large proportion of tin	<input type="checkbox"/>
50% of brass is zinc	<input type="checkbox"/>
There is copper in brass, bronze and pewter	<input type="checkbox"/>
In bronze there is more tin than copper	<input type="checkbox"/>

(Total 3 marks)

Total \_\_\_\_\_ out of 12