

Pictographs

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You *can* use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1 Here are the number of pizzas a takeaway sold each day for the past 7 days (Level 3)

Wednesday 55, Thursday 30, Friday 65, Saturday 70, Sunday 40

1(a) Complete the pictograph below to represent this data.

[3 marks]

Number of pizzas sold

Monday	○ ○ ◐
Tuesday	○ ○ ○
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

(Use ○ to represent 10 pizzas.)






1(b) How many pizzas were sold altogether?


[1 marks]

Answer _____

Turn over for next question

- 2 The pictograph below shows the number of hours of sunshine on 1st April in 5 cities. (Level 3)

	Number of hours of sunshine
London	
New York	
Paris	
Barcelona	
Rome	

Key:  means 2 hours of sunshine

- 2(a) Which city had the least sunshine?

[1 mark]

Answer _____

- 2(b) How many hours of sunshine did Paris have?

[1 mark]

Answer _____

- 2(c) How many more hours of sunshine did New York have compared to Barcelona?

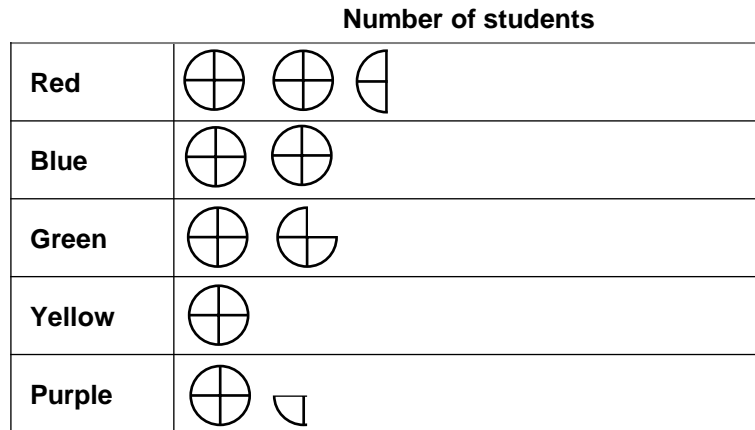
[1 mark]

Answer _____

3 Students in a year 7 class were asked to choose their favourite colour.

(Level 3)

The results are shown in the pictograph below.



Key:  means 4 pupils

3(a) How many pupils are in the class?

[1 mark]

Answer _____

3(b) Find the modal colour

[1 mark]

Answer _____

3(c) How many more pupils said red compared to green?

[1 mark]

Answer _____

Turn over for next question


4 Pupils in a class were asked how they got to school. (Level 4)


The results are shown below.

walk, cycle, car, cycle, cycle, bus, walk, bus, walk, walk, cycle, car, car, car, bus
cycle, car, car, cycle, walk, bus, car, walk, train, walk, walk, walk, bus, cycle, walk

4(a) Complete the pictograph below to show this information.

[3 marks]

Number of students	
Walk	
Cycle	
Car	
Bus	
Train	

Key:  means 4 pupils

4(b) Find the mode.

[1 mark]

Answer _____

4(c) A few weeks later, one pupil moved house and could no longer walk to school. They now travel by car.

What effect does this have on the mode from part (b)?

Circle the correct statement.

[1 mark]

The mode would change.

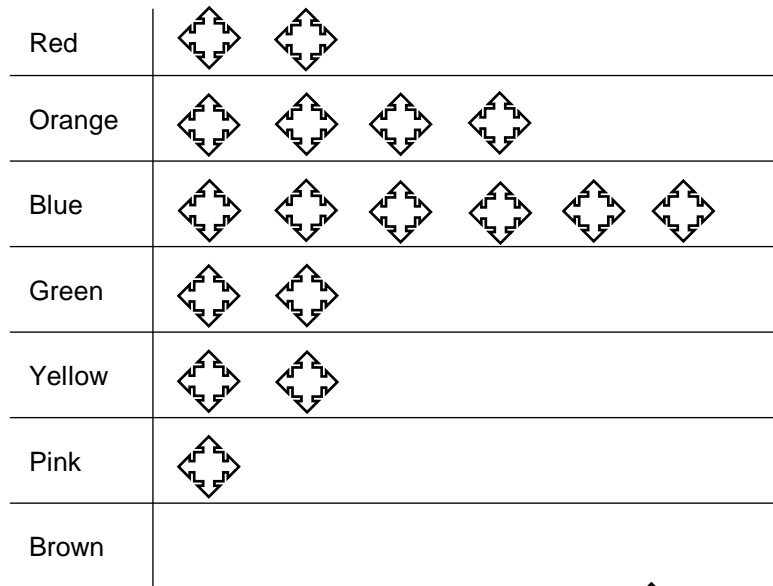
There are now 2 modal values

The mode would not change

There is now no modal value

Turn over for next question

- 5 The colours of smarties in a bag were recorded and shown in the pictograph below. (Level 4)



Key:  means

- 5(a) 12 of the smarties were orange.

Complete the key on the pictograph above.

[1 mark]

- 5(b) 9 smarties were brown.

Fill in the pictograph to show this information.

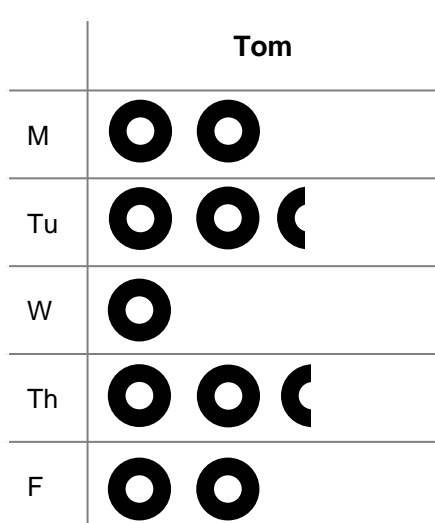
[1 mark]

- 5(c) What percentage of the smarties were pink?

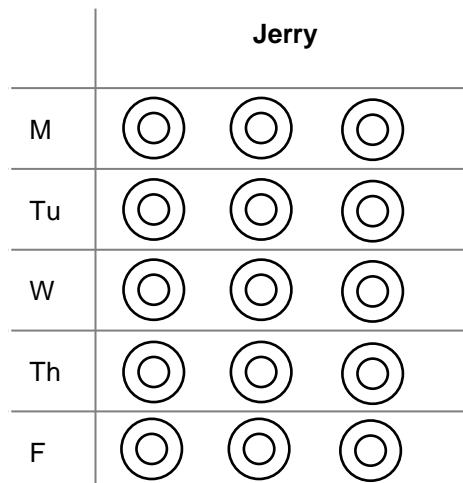
[2 marks]

- 6 Tom and Jerry counted the number of cars that passed each of their houses, each morning for the same 5 days. (Level 4)

The pictographs below show their results.



Key:  means 4 cars



Key:  means 2 cars

Who saw the most cars over the 5 days?

You must show your working.

[3 marks]

Answer _____

End of Questions