Mental Tests

M 11.1 Standard Route (no calculator)

Pupils will need a copy of Statistical Diagrams A

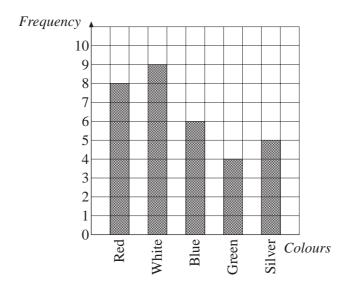
Questions 1 to 6 refer to the Bar Chart on Statistical Diagrams A.

1.	How many people owned a red car?	(8)		
2.	How many people owned a white car?	(9)		
3.	How many people were included in the survey?	(32)		
4.	What was the most popular car colour?	(white)		
5.	What was the <i>least</i> popular car colour?	(green)		
6.	How many people owned a blue or a red car?	(14)		
Questions 7 to 10 refer to the Pie Chart on Statistical Diagrams A.				
7.	What fraction of the people chose chips?	$(\frac{1}{2})$		
8.	Was rice more popular than pasta?	(yes)		
9.	Were baked potatoes more popular then rice?	(yes)		
10.	If 80 people were included in the survey, how many chose chips?	(40)		

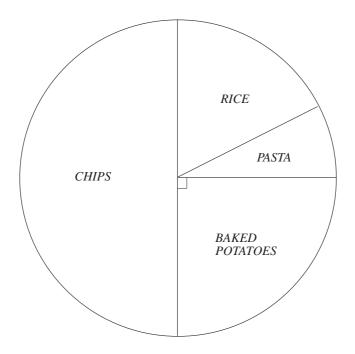
Mental Tests

Statistical Diagrams A

Results of Survey into Colours of Cars Owned by People in a Small Village



Results of Survey to Determine Preferences for Pasta, Rice, Baked Potatoes or Chips



(13)

(16)

(36)

UNIT 11 Data Collection and Presentation

Questions 1 to 5 refer to the Bar Chart on Statistical Diagrams B.

How many homes had 4 or more low energy light bulbs?

How many homes had 1 or 0 low energy light bulbs?

10. How many homes were included in the survey?

Mental Tests

M 11.2 Standard Route (no calculator)

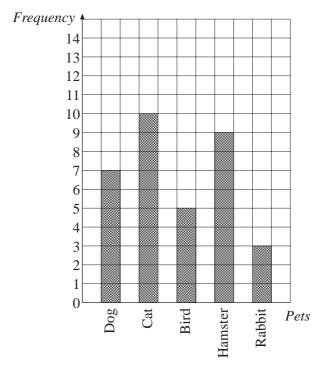
Pupils will need a copy of Statistical Diagrams B

1.	How many pupils owned hamsters?	(9)	
2.	How many pupils owned a cat?	(10)	
3.	What was the most popular pet?	(cat)	
4.	What was the least popular pet?	(rabbit)	
5.	If 2 pupils owned both a cat and a dog, how many owned a dog but not a cat?	(5)	
Questions 7 to 10 refer to the Pictogram on Statistical Diagrams B.			
6.	How many homes had no low energy light bulbs?	(10)	
7.	How many homes had 3 low energy light bulbs?	(2)	

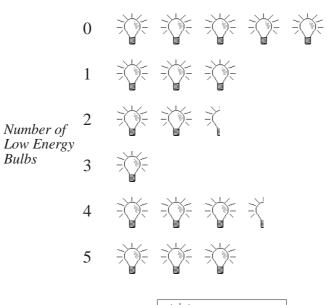
Mental Tests

Statistical Diagrams B

Pets Owned by Pupils in Class 7B



Results of Survey Into the Use of Low Energy Light Bulbs



Mental Tests

M11.3 Academic/Express Route (no calculator)

Pupils will need a copy of Statistical Diagrams A

Questions 1 to 5 refer to the Bar Chart on Statistical Diagrams A.				
1.	How many people owned a silver car?	(5)		
2.	How many people were included in the survey?	(32)		
3.	How many people owned a car that was red, blue or green?	(18)		
4.	How many people owned a car that was not silver?	(27)		
5.	How many more people owned white cars than owned green ones?	(5)		
Questions 7 to 10 refer to the Pie Chart on Statistical Diagrams A.				
6.	What fraction of the people chose baked potatoes?	$(\frac{1}{4})$		
7.	If 14 people chose chips, how many people took part in the survey?	(28)		
8.	If 12 people took part in the survey, how many chose			
	(a) baked potatoes,	(3)		
	(b) rice,	(2)		
	(c) pasta?	(1)		

Mental Tests

M11.4 Academic/Express Route (no calculator)

Pupils will need a copy of Statistical Diagrams B

Questions 1 to 5 refer to the Bar Chart on Statistical Diagrams B.

1.	How many pupils owned hamsters?	(9)		
2.	If 2 pupils owned a cat and a dog, how many pupils owned:			
	(a) a dog but not a cat,	(5)		
	(b) a cat but not a dog?	(8)		
3.	What is the total number of pets represented in the bar chart?	(34)		
4.	All the pupils owned either 1 pet or 2 pets. If there were 30 pupils in the class, how many owned 2 pets?	(4)		
Questions 5 to 9 refer to the Pictogram on Statistical Diagrams B.				
5.	How many homes had 4 low energy light bulbs?	(7)		
6.	How many homes took part in the survey?	(36)		
7.	How many homes had less than 4 low energy light bulbs?	(23)		
8.	How many homes had at least 1 low energy light bulb?	(26)		
9.	What fraction of the homes in the survey did not have any low energy light bulbs?			
	Give your answer in the simplest possible form.	$(\frac{5}{18})$		