**Data – Interpreting Results (F)**

Post-Intervention Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Question** | **Objective** | **RAG** |
| 1 | Draw and interpret tally charts, bar graphs and pictograms |  |
| 2 | Calculate averages from a set of data |  |
| 3 | Draw and interpret pie charts |  |
| 4 | Draw and interpret scatter graphs |  |
| 5 | Calculate averages from a table |  |

**1.** Daniel carried out a survey of his friends’ favourite flavour of crisps.

Here are his results.

Plain Chicken Bovril Salt & Vinegar Plain

Salt & Vinegar Plain Chicken Plain Bovril

Plain Chicken Bovril Salt & Vinegar Bovril

Bovril Plain Plain Salt & Vinegar Plain

(a) Complete the table to show Daniel’s results.

|  |  |  |
| --- | --- | --- |
| Flavour of crisps | Tally | Frequency |
| Plain |  |  |
| Chicken |  |  |
| Bovril |  |  |
| Salt & Vinegar |  |  |

**(3)**

(b) Write down the number of Daniel’s friends whose favourite flavour was Salt & Vinegar.

……………………..

**(1)**

(c) Which was the favourite flavour of most of Daniel’s friends?

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**2.** Here are ten numbers.

7 6 8 4 5 9 7 3 6 7

(a) Work out the range.

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**(2)**

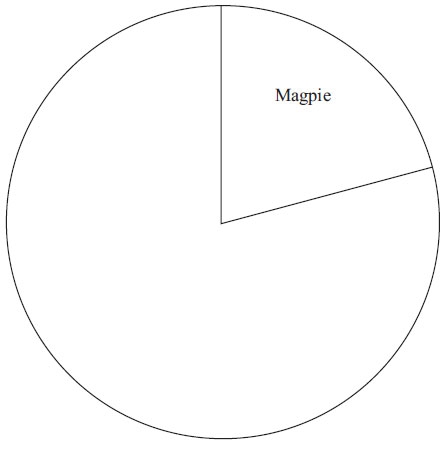
(b) Work out the mean.

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**3.** The table gives some information about the birds Paula sees in her garden one day.

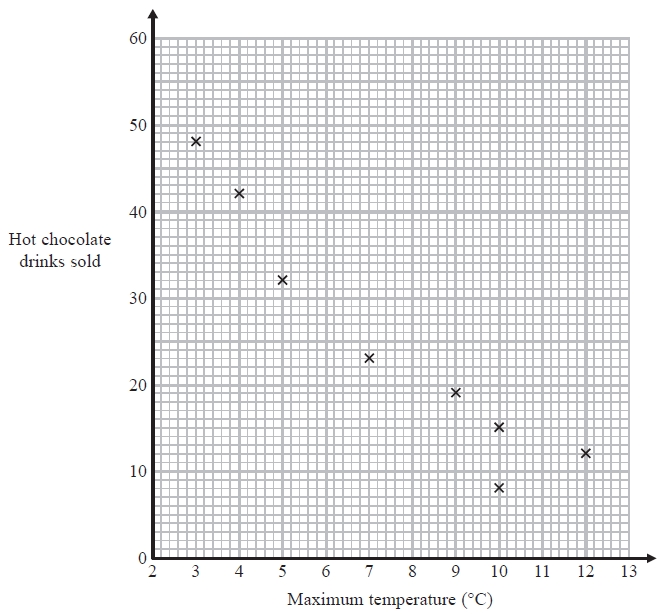
|  |  |
| --- | --- |
| **Bird** | **Frequency** |
| Magpie | 15 |
| Thrush | 10 |
| Starling | 20 |
| Sparrow | 27 |

Complete the accurate pie chart.



**4.** Carlos has a cafe in Clacton.   
Each day, he records the maximum temperature in degrees Celsius (°C) in Clacton and the number of hot chocolate drinks sold.

The scatter graph shows this information.



On another day the maximum temperature was 6 °C and 35 hot chocolate drinks were sold.

(a) Show this information on the scatter graph.

**(1)**

(b) Describe the relationship between the maximum temperature and the number of hot chocolate drinks sold.

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**(1)**

(c) Draw a line of best fit on the scatter diagram.

**(1)**

One day the maximum temperature was 8 °C.

(d) Use your line of best fit to estimate how many hot chocolate drinks were sold.

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**5.** 30 adults took part in a survey. They were each asked how much money they spent on lottery tickets last week. The table shows the results of the survey.

|  |  |  |
| --- | --- | --- |
| **Money (£)** | **Frequency** |  |
| 0 | 5 |  |
| 2 | 16 |  |
| 4 | 6 |  |
| 20 | 2 |  |
| 30 | 1 |  |

Work out the mean amount of money the 30 adults spent on lottery tickets.

£ ...........................................................

[Glue here]