Averages from Frequency Tables GREEN

Q1. Vicky counts the number of birds in her garden at 5 pm on each of 20 days. She records the information in a frequency table.

|  |  |
| --- | --- |
| **Number of birds** | **Frequency** |
| 0 | 3 |
| 1 | 2 |
| 2 | 3 |
| 3 | 4 |
| 4 | 5 |
| 5 | 3 |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q2. Marta asked some students how many cans of drink they each drank yesterday. The table shows her results.

|  |  |
| --- | --- |
| **Number of cans** | **Frequency** |
| 0 | 6  |
| 1 | 9 |
| 2 | 7 |
| 3 | 3 |
| 4 | 2 |
| 5 | 1 |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3. Jim asked each person in his class how many cars their family have. The frequency table shows the results.

|  |  |
| --- | --- |
| **Number of cars** | **Frequency** |
| 0 | 2 |
| 1 | 12 |
| 2 | 8 |
| 3 | 6 |
| 4 | 2 |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q4. Chris works in a cafe. At noon one day, he records the number of customers sitting at each table in the cafe. Here are his results.

|  |  |
| --- | --- |
| **Number of customers sitting at a table** | **Number of tables** |
| 0 | 4 |
| 1 | 5 |
| 2 | 10 |
| 3 | 7 |
| 4 | 3 |
| 5 | 1 |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Averages from Frequency Tables AMBER

Q1. Vicky counts the number of birds in her garden at 5 pm on each of 20 days. She records the information in a frequency table.

|  |  |  |
| --- | --- | --- |
| **Number of birds** | **Frequency** | $$fx$$ |
| 0 | 3 |  |
| 1 | 2 |  |
| 2 | 3 |  |
| 3 | 4 |  |
| 4 | 5 |  |
| 5 | 3 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

 Total number of birds ÷ total number of days

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q2. Marta asked some students how many cans of drink they each drank yesterday. The table shows her results.

|  |  |  |
| --- | --- | --- |
| **Number of cans** | **Frequency** | $$fx$$ |
| 0 | 6  |  |
| 1 | 9 |  |
| 2 | 7 |  |
| 3 | 3 |  |
| 4 | 2 |  |
| 5 | 1 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3. Jim asked each person in his class how many cars their family have. The frequency table shows the results.

|  |  |  |
| --- | --- | --- |
| **Number of cars** | **Frequency** | $$fx$$ |
| 0 | 2 |  |
| 1 | 12 |  |
| 2 | 8 |  |
| 3 | 6 |  |
| 4 | 2 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q4. Chris works in a cafe. At noon one day, he records the number of customers sitting at each table in the cafe. Here are his results.

|  |  |  |
| --- | --- | --- |
| **Number of customers sitting at a table** | **Number of tables** | $$fx$$ |
| 0 | 4 |  |
| 1 | 5 |  |
| 2 | 10 |  |
| 3 | 7 |  |
| 4 | 3 |  |
| 5 | 1 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Averages from Frequency Tables RED

Q1. Vicky counts the number of birds in her garden at 5 pm on each of 20 days. She records the information in a frequency table.

|  |  |  |
| --- | --- | --- |
| **Number of birds** | **Frequency** | $$fx$$ |
| 0 | 3 | 0 |
| 1 | 2 | 2 |
| 2 | 3 | 6 |
| 3 | 4 |  |
| 4 | 5 |  |
| 5 | 3 |  |

 a) Write down the mode. (most frequent)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range. (biggest – smallest)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median. (middle value)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

 Total number of birds ÷ total number of days

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q2. Marta asked some students how many cans of drink they each drank yesterday. The table shows her results.

|  |  |  |
| --- | --- | --- |
| **Number of cans** | **Frequency** | $$fx$$ |
| 0 | 6  |  |
| 1 | 9 |  |
| 2 | 7 |  |
| 3 | 3 |  |
| 4 | 2 |  |
| 5 | 1 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

 Total number of cans ÷ total number of students

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3. Jim asked each person in his class how many cars their family have. The frequency table shows the results.

|  |  |  |
| --- | --- | --- |
| **Number of cars** | **Frequency** | $$fx$$ |
| 0 | 2 |  |
| 1 | 12 |  |
| 2 | 8 |  |
| 3 | 6 |  |
| 4 | 2 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

 Total number of cars ÷ total number of peers

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q4. Chris works in a cafe. At noon one day, he records the number of customers sitting at each table in the cafe. Here are his results.

|  |  |  |
| --- | --- | --- |
| **Number of customers sitting at a table** | **Number of tables** | $$fx$$ |
| 0 | 4 |  |
| 1 | 5 |  |
| 2 | 10 |  |
| 3 | 7 |  |
| 4 | 3 |  |
| 5 | 1 |  |

 a) Write down the mode.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Find the range.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Work out the median.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) Calculate the mean.

 Total number of people ÷ total number of tables

\_\_\_\_\_\_\_\_\_\_\_\_\_