**Dubai Scholars Private School**

**Year 7 – Extension Worksheet**

**Subject -Mathematics**

**Topic :Analysing and Displaying Data**

1. Here is a list of the numbers of children living in the first 5 houses in a street.

4 2 6 1 2

**a** Work out the mean.

There are no children living in the sixth house in the street.

**b** Will the mean for all 6 houses be greater or less than for the first 5 houses?

Give a reason for your answer.

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1. Here is a list of the numbers of bags some shoppers were carrying when leaving a supermarket.

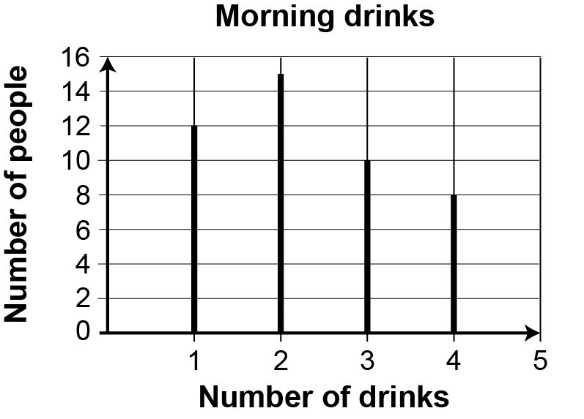
1 2 5 4 0 5 4

**a** Find the median.

**b** Work out the mean.

**c** Work out the range.

**3** The diagram gives information about the number of drinks some people had one morning.



**a** Write the mode.

**b** Work out the range.

4. Here are the lengths of some lines that Bhavna measured with a ruler.

4 cm 7 cm 11 cm 7 cm 1 cm

**a** Work out the mean.

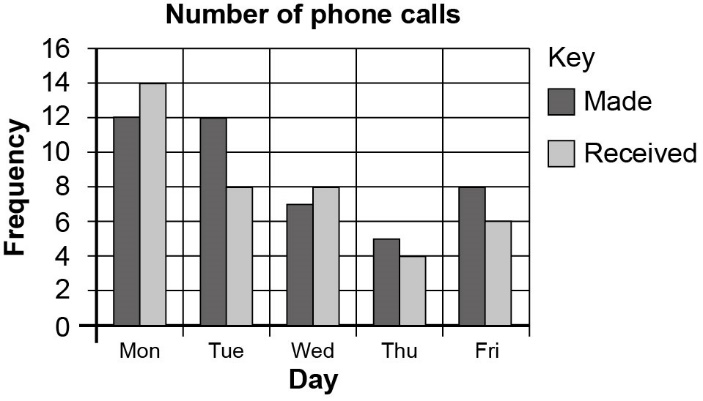
**b** Work out the range.

In fact, Bhavna measured from the wrong place on her ruler and the true lengths of the lines were all 1 cm more than she measured.

**c** Find the true mean length of these lines.

**d** Find the true range of the length of these lines.

**5** The compound bar chart shows the number of calls Julie made and the number she received in  
5 days.



**a** On which day was the difference greatest between the number of calls made and the number received?

6. Here are the ages in years of some people in a sports club.

8 12 25 18 30 23 35 33 28 18

9 18 22 10 21 15 29 31 20 23

Complete this grouped frequency table using intervals of equal width.

The first interval has been done for you.

|  |  |  |
| --- | --- | --- |
| Age (years) | Tally | Frequency |
| 0–9 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |