# Mean from a frequency table

Grade 3 | Foundation | 5 questions, 20 marks

**GCSE Statistics topic practice**

**Name:** _____ **Date:** _____ **Score:** _____ **/ 20**

**1** The table shows the number of pets owned by each of 10 families.

| Number of pets | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Number of families | 2 | 4 | 3 | 1 |

a. Work out the total number of pets owned by the 10 families. (2)

b. Work out the mean number of pets per family. (1)

(3 marks)

**2** The table shows the number of goals scored by a hockey team in each of 20 matches.

| Number of goals | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Frequency | 3 | 6 | 5 | 4 | 2 |

a. Work out the mean number of goals scored per match. (3)

b. Write down the mode. (1)

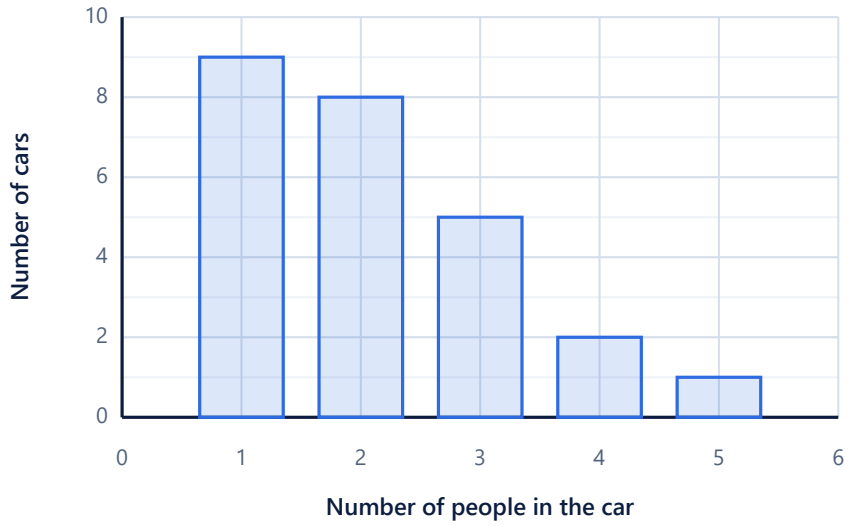
(4 marks)


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**3** Chloe counted the number of people in each of 25 cars going past her school. The bar chart shows her results.

a. How many cars had exactly 1 person in them? (1)

b. Work out the mean number of people per car. (3)




(4 marks)

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**4** The table shows the number of pupils who were late to a class on each of 30 days.

| Number of pupils late | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Number of days | 10 | 9 | 7 | 3 | 1 |

Sam works out the mean like this: 30 ÷ 5 = 6 pupils late per day.

a. Explain how you can tell, without working it out, that Sam's answer must be wrong. (1)

b. Work out the correct mean number of pupils late per day. (3)

(4 marks)

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**5** A shop recorded the number of items returned on each of 20 days in May. One frequency is missing from the table.

| Number of items returned | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Number of days | 4 | 7 | | 3 |

a. Work out the missing frequency. (1)

b. Work out the mean number of items returned per day. (3)

c. In April the mean was 1.9 items returned per day.
Compare the numbers of items returned in April and in May. (1)

(5 marks)

End of questions | Total 20 marks


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