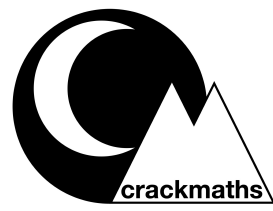


63. How to estimate the mean from a grouped frequency table



Scenario Questions: Round answers to 2 decimal places

1. The following table shows the weights (in kg) of 50 students in a class. Use the table to estimate the mean weight of the students.

| Weight (kg) | Frequency |
|------------------|-----------|
| $50 < w \leq 55$ | 8 |
| $55 < w \leq 60$ | 12 |
| $60 < w \leq 65$ | 15 |
| $65 < w \leq 70$ | 10 |
| $70 < w \leq 75$ | 5 |

2. A survey was conducted to determine the ages (in years) of people living in a neighbourhood. The results are shown in the table below. Estimate the mean age of the residents.

| Age (years) | Frequency |
|------------------|-----------|
| $20 < y \leq 30$ | 9 |
| $30 < y \leq 40$ | 10 |
| $40 < y \leq 50$ | 11 |
| $50 < y \leq 60$ | 6 |
| $60 < y \leq 70$ | 4 |

63. How to estimate the mean from a grouped frequency table



Scenario Questions: Round answers to 2 decimal places

3. The table below displays the number of books read per month by a group of students. Estimate the mean number of books read in a month.

| Books Read | Frequency |
|------------|-----------|
| 0 - 5 | 10 |
| 6 - 10 | 7 |
| 11 - 15 | 3 |
| 16 - 20 | 5 |
| 21 - 25 | 5 |

4. A farmer recorded the milk yield (in litres) of his cows. The data is represented in the table below. Estimate the mean milk yield of the cows.

| Milk (litres) | Frequency |
|------------------|-----------|
| $10 < l \leq 15$ | 20 |
| $15 < l \leq 20$ | 30 |
| $20 < l \leq 25$ | 25 |
| $25 < l \leq 40$ | 5 |

63. How to estimate the mean from a grouped frequency table



Scenario Questions: Round answers to 2 decimal places

5. A survey was conducted to find out the travel time (in minutes) for commuters. The data is represented in the table below. Estimate the mean travel time

| Travel (minutes) | Frequency |
|------------------|-----------|
| $20 < t \leq 30$ | 12 |
| $30 < t \leq 40$ | 6 |
| $40 < t \leq 50$ | 2 |

6. The marks (out of 60) obtained by a group of students in a test are shown in the table below. Estimate the mean of their marks.

| Marks | Frequency |
|---------|-----------|
| 0 - 20 | 3 |
| 21 - 30 | 6 |
| 31 - 40 | 26 |
| 41 - 50 | 4 |
| 51 - 60 | 1 |

63. How to estimate the mean from a grouped frequency table



Scenario Questions: **Answers**

1. The following table shows the weights (in kg) of 50 students in a class. Use the table to estimate the mean weight of the students.

1. 61.7kg

| Weight (kg) | Frequency |
|------------------|-----------|
| $50 < w \leq 55$ | 8 |
| $55 < w \leq 60$ | 12 |
| $60 < w \leq 65$ | 15 |
| $65 < w \leq 70$ | 10 |
| $70 < w \leq 75$ | 5 |

2. A survey was conducted to determine the ages (in years) of people living in a neighbourhood. The results are shown in the table below. Estimate the mean age of the residents.

2. 41.5 years

| Age (years) | Frequency |
|------------------|-----------|
| $20 < y \leq 30$ | 9 |
| $30 < y \leq 40$ | 10 |
| $40 < y \leq 50$ | 11 |
| $50 < y \leq 60$ | 6 |
| $60 < y \leq 70$ | 4 |

3. The table below displays the number of books read per month by a group of students. Estimate the mean number of books read in a month.

3. 10.83 books

| Books Read | Frequency |
|------------|-----------|
| 0 - 5 | 10 |
| 6 - 10 | 7 |
| 11 - 15 | 3 |
| 16 - 20 | 5 |
| 21 - 25 | 5 |

63. How to estimate the mean from a grouped frequency table



Scenario Questions: **Answers**

4. A farmer recorded the milk yield (in litres) of his cows. The data is represented in the table below. Estimate the mean milk yield of the cows.

4. 18.75 litres

| Milk (litres) | Frequency |
|------------------|-----------|
| $10 < l \leq 15$ | 20 |
| $15 < l \leq 20$ | 30 |
| $20 < l \leq 25$ | 25 |
| $25 < l \leq 40$ | 5 |

5. A survey was conducted to find out the travel time (in minutes) for commuters. The data is represented in the table below. Estimate the mean travel time

5. 30 minutes

| Travel (minutes) | Frequency |
|------------------|-----------|
| $20 < t \leq 30$ | 12 |
| $30 < t \leq 40$ | 6 |
| $40 < t \leq 50$ | 2 |

6. The marks (out of 60) obtained by a group of students in a test are shown in the table below. Estimate the mean of their marks.

6. 33.59 marks

| Marks | Frequency |
|---------|-----------|
| 0 - 20 | 3 |
| 21 - 30 | 6 |
| 31 - 40 | 26 |
| 41 - 50 | 4 |
| 51 - 60 | 1 |