Est. 1841

YORK ST JOHN UNIVERSITY

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Study Development Quick Guide

Add another column to the given table. Calculate the midpoint of each class interval- This
can be done by adding the highest and lowest value of the interval and then dividing that by
Estimated Mean

| Km travelled to work | Frequency | Midpoint |
|----------------------|-----------|----------|
| 0Km ≤ x < 5Km | 6 | 2.5Km |
| 5Km ≤ x < 10Km | 4 | 7.5Km |
| 10Km ≤ x < 20Km | 1 | 15Km |

2. Add another column to the table. In this one, calculate midpoint multiplied by frequency.

| Km travelled to work | Frequency | Midpoint | Midpoint x frequency |
|----------------------|-----------|----------|----------------------|
| 0Km ≤ x < 5Km | 6 | 2.5Km | 6 x 2.5 = 15Km |
| 5Km ≤ x < 10Km | 4 | 7.5Km | 30Km |
| 10Km ≤ time < 20Km | 1 | 15Km | 15Km |

3. Calculate the total of the frequency column, and the total of the midpoint \times frequency column.

| Km travelled to work | Frequency | Midpoint | Midpoint x frequency |
|----------------------|-----------|----------|----------------------|
| 0Km ≤ x < 5Km | 6 | 2.5Km | 6 x 2.5 = 15Km |
| 5Km ≤ x < 10Km | 4 | 7.5Km | 30Km |
| 10Km ≤ time < 20Km | 1 | 15Km | 15Km |
| | 11 | | 60Km |

4. Divide the total of the midpoint \times frequency column by the total of the frequency column. This gives you the estimated mean.

$$60\text{Km} \div 11 = 5.45\text{Km}$$

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Email: studydevelopment@yorksj.ac.uk





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Support: Study Development offers workshops, short courses, 1 to 1 and small group tutorials.

- Join a tutorial or workshop on the <u>Study Development tutorial and workshop webpage</u> or search 'YSJ study development tutorials.'
- Access our Study Success resources on the <u>Study Success webpage</u> or search 'YSJ study success.'

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