# Averages: Mean, Median, Mode and Range

Junior Cycle Maths · Junior Cycle and Transition Year · About 20 minutes · 8 questions

Name _____ Date _____ Score / 8

**WHAT YOU WILL PRACTISE**

- Calculate the mean, median, mode and range of a data set
- Find a missing value from a given mean
- Choose the most suitable average and give a reason

**WORKED EXAMPLE**

Find the mean and the range of 5, 8, 8, 11, 13.

1. Add the values: 5 + 8 + 8 + 11 + 13 = 45.
2. Divide by how many values there are: 45 ÷ 5 = 9, so the mean is 9.
3. Subtract the smallest value from the largest: 13 − 5 = 8, so the range is 8.

**Answer:** Mean 9, range 8

## Questions

Show your working in the space under each question.

**1.** Find the mean of 4, 7, 9, 10, 15

**2.** Find the median of 3, 8, 5, 12, 7

**3.** Find the mode of 2, 5, 3, 5, 7, 5, 2

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**4.** Find the range of 14, 9, 22, 17, 11

**5.** Find the median of 6, 2, 9, 4, 10, 7

**6.** The mean of five numbers is 8. Four of the numbers are 6, 9, 10 and 3. Find the fifth number.

**7.** The mean of four numbers is 12. A fifth number, 22, is added. Find the new mean.

**8.** Six test scores are 12, 15, 15, 18, 20 and 40. Which represents the scores better, the mean or the median? Give a reason.

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# Answers: Averages: Mean, Median, Mode and Range

Mark your own work, then go back to any question you got wrong before reading the tutor tip.

| Q | QUESTION | ANSWER |
|---|---|---|
| 1 | Find the mean of 4, 7, 9, 10, 15 | **9** |
| 2 | Find the median of 3, 8, 5, 12, 7 | **7** |
| 3 | Find the mode of 2, 5, 3, 5, 7, 5, 2 | **5** |
| 4 | Find the range of 14, 9, 22, 17, 11 | **13** |
| 5 | Find the median of 6, 2, 9, 4, 10, 7 | **6.5** |
| 6 | The mean of five numbers is 8. Four of the numbers are 6, 9, 10 and 3. Find the fifth number. | **12** |
| 7 | The mean of four numbers is 12. A fifth number, 22, is added. Find the new mean. | **14** |
| 8 | Six test scores are 12, 15, 15, 18, 20 and 40. Which represents the scores better, the mean or the median? Give a reason. | **The median (16.5). The score of 40 is an outlier that pulls the mean up to 20.** |

**TUTOR TIP**

Put the numbers in order before finding the median. With an even number of values, the median is halfway between the middle two.

**Stuck on a question? Work through it live with a tutor.**

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