

## 64. How to compare two data sets using the median and range



### Scenario Questions:

1. Set A has a median test score of 80 and a range of 30. Set B has a median test score of 85 and a range of 20. Compare the medians and ranges of the two sets.
2. Set A has a median price of £25 and a range of £15. Set B has a median price of £30 and a range of £10. Compare the medians and ranges of the two sets.
3. Set A has a median temperature of  $75^{\circ}\text{F}$  and a range of  $20^{\circ}\text{F}$ . Set B has a median temperature of  $80^{\circ}\text{F}$  and a range of  $15^{\circ}\text{F}$ . Compare the medians and ranges of the two sets.
4. Set A has a median height of 160 cm and a range of 30 cm. Set B has a median height of 165 cm and a range of 25 cm. Compare the medians and ranges of the two sets.
5. Set A has a median age of 20 years and a range of 10 years. Set B has a median age of 22 years and a range of 12 years. Compare the medians and ranges of the two sets.

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### Scenario Questions:

6. Set A has a median rainfall of 2 inches and a range of 1 inch. Set B has a median rainfall of 2.5 inches and a range of 0.5 inches. Compare the medians and ranges of the two sets.

7. Set A has a median distance of 10 miles and a range of 5 miles. Set B has a median distance of 12 miles and a range of 4 miles. Compare the medians and ranges of the two sets.

8. Set A has a median number of books read of 5 and a range of 10. Set B has a median number of books read of 7 and a range of 8. Compare the medians and ranges of the two sets.

9. Set A has a median age of winners at 15 and a range of 5. Set B has a median age of winners at 16 and a range of 4. Compare the medians and ranges of the two sets.

10. Set A has a median price of houses at £400,000 and a range of £200,000. Set B has a median price of houses at £450,000 and a range of £120,000. Compare the medians and ranges.

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## Scenario Questions: **Answers**

1. Set A has a median test score of 80 and a range of 30. Set B has a median test score of 85 and a range of 20. Compare the medians and ranges of the two sets.

**1. Set B has a higher Median. Set B both has a smaller range.**

2. Set A has a median price of £25 and a range of £15. Set B has a median price of £30 and a range of £10. Compare the medians and ranges of the two sets.

**2. Set A has a lower median. Set B has a lower range.**

3. Set A has a median temperature of 75°F and a range of 20°F. Set B has a median temperature of 80°F and a range of 15°F. Compare the medians and ranges of the two sets.

**3. Set B has a higher median. Set B has a smaller range.**

4. Set A has a median height of 160 cm and a range of 30 cm. Set B has a median height of 165 cm and a range of 25 cm. Compare the medians and ranges of the two sets.

**4. Set A has a lower median. Set B has a smaller range.**

5. Set A has a median age of 20 years and a range of 10 years. Set B has a median age of 22 years and a range of 12 years. Compare the medians and ranges of the two sets.

**5. Set A has a lower median. Set A has a lower range.**

6. Set A has a median rainfall of 2 inches and a range of 1 inch. Set B has a median rainfall of 2.5 inches and a range of 0.5 inches. Compare the medians and ranges of the two sets.

**6. Set B has a higher median. Set B has a smaller range.**

7. Set A has a median distance of 10 miles and a range of 5 miles. Set B has a median distance of 12 miles and a range of 4 miles. Compare the medians and ranges of the two sets.

**7. Set B has a lower median. Set A has a lower range.**

8. Set A has a median number of books read of 5 and a range of 10. Set B has a median number of books read of 7 and a range of 8. Compare the medians and ranges of the two sets.

**8. Set A has a smaller median. Set A has a larger range.**

9. Set A has a median age of winners at 15 and a range of 5. Set B has a median age of winners at 16 and a range of 4. Compare the medians and ranges of the two sets.

**9. Set B has a higher median. Set A has a larger range.**

10. Set A has a median price of houses at £400,000 and a range of £200,000. Set B has a median price of houses at £450,000 and a range of £120,000. Compare the medians and ranges of the two sets.

**10. Set B has a higher median. Set B has a lower range.**