

Start Tasks



Sort the data first. The median splits it in half. Q_1 is the median of the lower half, Q_3 is the median of the upper half (leave out the overall median when the count is odd).

1. Find Q_1 , Q_2 , and Q_3
for: 4, 6, 8, 10, 12, 14,
16.

2. Find Q_1 , Q_2 , and Q_3
for: 3, 5, 7, 9, 11, 13, 15.

3. Find Q_1 , Q_2 , and Q_3
for: 2, 4, 6, 8, 10, 12, 14,
16.

4. Find Q_1 , Q_2 , and Q_3
for: 6, 7, 9, 11, 13, 15, 18,
20.

5. Find Q_1 , Q_2 , and Q_3
for: 5, 6, 8, 10, 13, 14, 17.

6. Find Q_1 , Q_2 , and Q_3
for: 9, 11, 12, 15, 18, 21,
24, 27.

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The interquartile range (IQR) is $Q_3 - Q_1$ – the spread of the middle 50% of the data.

7. Find the IQR for: 5, 8, 10, 12, 14, 17, 20.

8. Find the IQR for: 12, 14, 16, 18, 20, 22, 24, 26.

9. If $Q_1 = 9$ and $Q_3 = 21$, find the IQR.

10. If $Q_1 = 14$ and $Q_3 = 32$, find the IQR.

11. What part of the data lies between Q_1 and Q_3 ?

12. What part of the data lies below Q_1 ?

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A box-and-whisker graph plots the minimum, Q_1 , median, Q_3 , and maximum on one scale.

13. Box plot: min 4,
 $Q_1 = 8$, median 11,
 $Q_3 = 15$, max 19. Find
the IQR.

14. Box plot: min 10,
 $Q_1 = 14$, median 18,
 $Q_3 = 23$, max 30. State
 Q_1 and Q_3 .

15. Box plot: min 6,
 $Q_1 = 9$, median 13,
 $Q_3 = 18$, max 22. State
the median.

16. Box plot: min 2,
 $Q_1 = 7$, median 10,
 $Q_3 = 16$, max 20. State
the maximum.