



Math Virtual Learning

**Math 7/Pre-Algebra
Statistics Review**

May 1, 2020

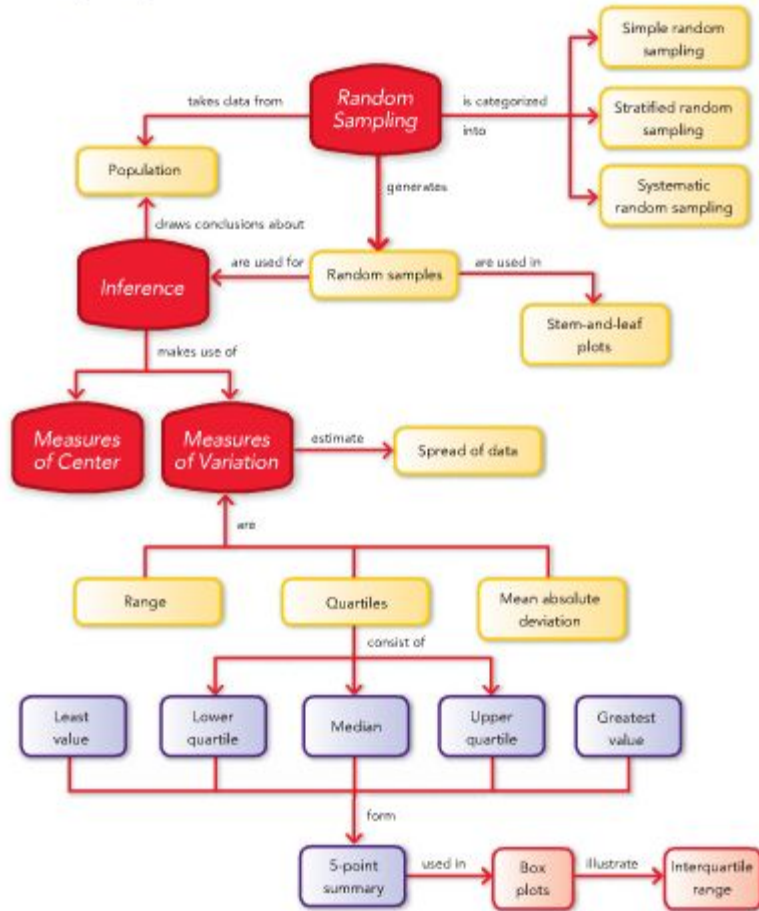


Grade 7/Statistics Review
Lesson: May 1, 2020

Objective/Learning Target:
Students will review statistical concepts.

Let's Get Started:
Watch Video: [What is Statistics?](#)

Concept Map



Practice

This is a concept map of topics covered within the realm of Statistics. Create a one-pager that represents the skills you have learned during this unit.



Practice:

Go to this website:

[Khan Academy Data and Statistics Unit Test](#)

1. Click the “Let’s go” button.
2. Answer the 17 questions.
3. Notice the “show calculator” button.
4. If your answer is not correct, you can either try again, get help, or move on.

Practice:

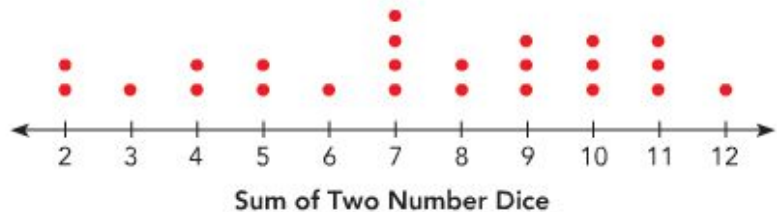
Answer the questions on a piece of paper.

Find the range, the three quartiles, and the interquartile range.

- 1 2, 4, 1, 7, 3, 3, 9, 10, 1, 0, 6, 8, 5, 5, 9
- 2 34, 66, 90, 25, 46, 81, 40, 67, 95, 104, 36, 49
- 3 1.23, 1.45, 1.09, 1.78, 1.55, 1.67, 1.37, 1.05, 1.23, 1.11
- 4 162.5, 248.6, 130.7, 344.9, 322.0, 234.2, 150.8, 304.7, 326.4

Use the information below to answer the following.

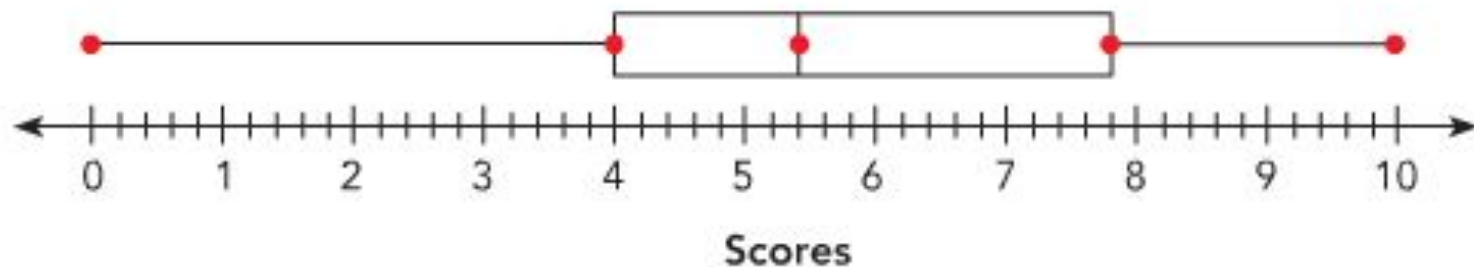
Tara tossed two number dice 24 times. She found the sum of the values for each throw and displayed the sums in a dot plot.



- 5 Find the range of the data.
- 6 Find the 3 quartiles of the data.
- 7 Find the interquartile range.

Use the box plot to answer the following.

The box plot below summarizes the scores obtained by the contestants in a game.



- 16** What are the greatest and the least scores?
- 17** Find the first, second, and third quartiles.
- 18** If there are 160 contestants, how many scored 4 or more points?

Answer Key:

Once you have completed the problems, check your answers here.

Find the range, the three quartiles, and the interquartile range.

1 2, 4, 1, 7, 3, 3, 9, 10, 1, 0, 6, 8, 5, 5, 9

Range = 10; $Q_1 = 2$; $Q_2 = 5$; $Q_3 = 8$; Interquartile range = 6

2 34, 66, 90, 25, 46, 81, 40, 67, 95, 104, 36, 49

Range = 79; $Q_1 = 38$; $Q_2 = 57.5$; $Q_3 = 85.5$; Interquartile range = 47.5

3 1.23, 1.45, 1.09, 1.78, 1.55, 1.67, 1.37, 1.05, 1.23, 1.11

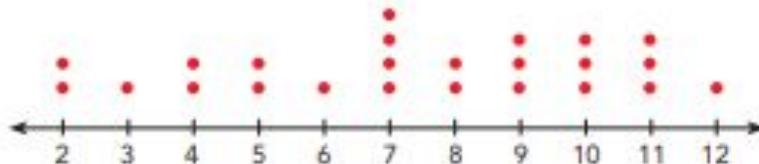
Range = 0.73; $Q_1 = 1.11$; $Q_2 = 1.3$; $Q_3 = 1.55$; Interquartile range = 0.44

4 162.5, 248.6, 130.7, 344.9, 322.0, 234.2, 150.8, 304.7, 326.4

Range = 214.2; $Q_1 = 156.65$; $Q_2 = 248.6$; $Q_3 = 324.2$;

Use the information below to answer the following. Interquartile range = 167.55

Tara tossed two number dice 24 times. She found the sum of the values for each throw and displayed the sums in a dot plot.



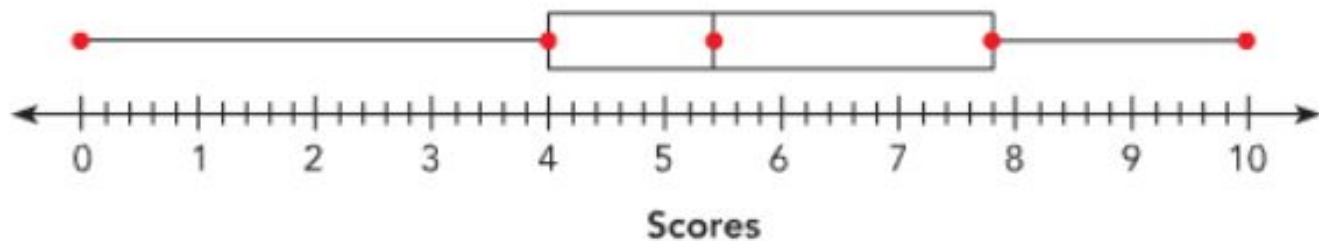
5 Find the range of the data. 10

6 Find the 3 quartiles of the data. $Q_1 = 5$; $Q_2 = 7.5$;
 $Q_3 = 10$

7 Find the interquartile range. 5

Use the box plot to answer the following.

The box plot below summarizes the scores obtained by the contestants in a game.



- 16 What are the greatest and the least scores? Greatest = 10; Least = 0
- 17 Find the first, second, and third quartiles. $Q_1 = 4$; $Q_2 = 5.4$; $Q_3 = 7.8$
- 18 If there are 160 contestants, how many scored 4 or more points? 120 contestants

Additional Practice:

Click on the links below to get additional practice and to check your understanding!

[That Quiz](#)

[IXL Mean Median Mode Range Practice](#)

[Statistics: A Poem](#)