

Engineering Virtual Learning

HS Intro to Engineering Design Lesson #9 April 16, 2020



Objective/Learning Target: Students will continue to use the measures of central tendency - statistics. (This is day 4 of a 4 day project.)

Bell-work:

Describe the precision and accuracy of this target.



A. High Accuracy, High PrecisionB. Low Accuracy, High PrecisionC. High Accuracy, Low PrecisionD. Low Accuracy, Low Precision

Learning Practice:

Find the mean, median, mode and range for the flowing scores in 5 games of bowling from 2 different competitors.

Striker Steven	Gutter-ball Gill
125	98
132	168
111	110
155	147
109	103

Mean is the Average – add all numbers and divide by how many there are.

Median is the Middle – arrange data in order from largest to smallest and pick the middle number.

Mode occurs Most often – pick the one that is repeated.

Range - Highest number – Lowest number (difference of the values)

Who would you say has the better precision? Better accuracy?

Why do you think their Statistics are so close even though they had such different scores?

Check For Understanding: Answer Key

	Striker Steven	Gutter-ball Gill	Mean – SS: 632/5 = 126.4
	125	98	GG: 626/5 = 125.2 Median – SS: 125 GG: 110 Mode – SS: No Mode GG: No Mode
	132	168	
	111	110	
	155	147	
	109	103	
Total:	632	626	Range – SS: 46 GG: 70

Is it strange here to have No Mode for both competitors?

Learning Resource Links:

Measures of central tendancy or Statistics -

https://www.khanacademy.org/math/ap-statistics/summarizing-quantitative-dataap/measuring-center-quantitative/v/statistics-intro-mean-median-and-mode

- 1. Precision measures how close measurements are to each other.
- 2. Accuracy measures how close a result is to the truth.







High Accuracy High Precision Low Accuracy High Precision High Accuracy Low Precision Low Accuracy Low Precision

