

## Unit 7: Series & Statistics

Objective: S.ID.4

# Day 4: Basic Statistics

**Example:** Pat's grades on her Math tests were 90, 25, 98, 82, and 90.

a) **mean:** avg. Symbol:  $\bar{x}$ ,  $\mu$   
77

b) **median:** middle #; must be in order from least to greatest  
90

c) **mode:** # that appears the most  
90

d) **range:** largest # - smallest #  
73

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25 82 90 90 98

e) **quartile 1:** the middle # on the left side

$$Q_1 = \frac{82+25}{2} = 53.5$$

f) **quartile 2:** median

90

g) **quartile 3:** the middle # on the right side...

$$Q_3 = \frac{90+98}{2} = 94$$

h) **interquartile range:**

$$\text{IQR } Q_3 - Q_1 = 94 - 53.5$$
$$\text{IQR} = 40.5$$

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i) **outliers:** # that's very diff from the data set

25

j) **box-and-whisker plot:**



