Modeling Data Key Concepts

Ways to Describe the <u>SHAPE</u> of Distributions:



Ways to Describe the <u>CENTER</u> of Distributions:

MEAN	MEDIAN	MODE
 ADD the numbers Count how many numbers you have Divide the sum by the amount of numbers 	 Put the values in order from smallest to largest. Find the middle value. If there are two middle values, then find the average of those two numbers. 	• The number that repeats itself the most times.
9, 3, 1, 8, 3, 6 9 + 3 + 1 + 8 + 3 + 6 = 30 30 ÷ 6 = 5 The mean is 5	9, 3, 1, 8, 3, 6 1, 3, 3, 6, 8, 9 The median is 4.5	The most common number 9, 3, 1, 8, 3, 6 The mode is 3
Average	Middle	Most

Ways to Describe the <u>SPREAD</u> of Distributions:

RANGE	INTERQUARTILE RANGLE (IQR)
range = max - min	$IQR = Q_3 - Q_1$
16, 24, 26, 26, 26, 27, 28	$23, \frac{25}{25}, 28, \frac{28}{32}, \frac{33}{35}, 35$
$range = \frac{28}{16} - \frac{16}{16}$	IQR = 33 - 25

Ways to Identify <u>OUTLIERS</u> of Distributions:

