Name: _____

Math6
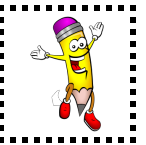
Period: _____

The Effect of Outliers
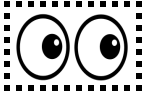
Terms:
Outlier - a number very different from the other numbers in a data set.

Objective:
You will learn the effect an outlier can have on the mean, median, and mode of a data set.

Examples:

Ex. 1 Daily temperatures for Medfield in the last week of August

Data set: 87°, 88°, 92°, 94°, 94°

Mean = 91°　　　　Median = 92°　　　　Mode = 94°

What if there was one very cold day added to the data set?

New data set: 55°, 87°, 88°, 92°, 94°, 94°

Mean = 85°　　　　Median = 90°　　　　Mode = 94°

YOU GOT THIS:

1) Heights of buildings in Boston (in feet)

Data Set: 400 ft., 1,012 ft., 356 ft., 345 ft.

Which value is the outlier? _____

Find the mean, median, and mode *without* the outlier.

Find the mean, median, and mode *with* the outlier.