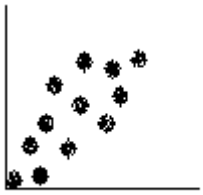
Grade 8 – Standard 6

14. Fit a line to the scatter plot of two quantities. Describe any correlation of the variables. The data represented in the scatter plot above can be described as having…



E) positive correlation
F) negative correlation
G) no correlation
H) both positive and negative correlation

23. The stem-and-leaf plot below shows the ages of people at a retirement seminar. How many people were in their seventies?

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

A) 2
B) 6
C) 8
D) 27

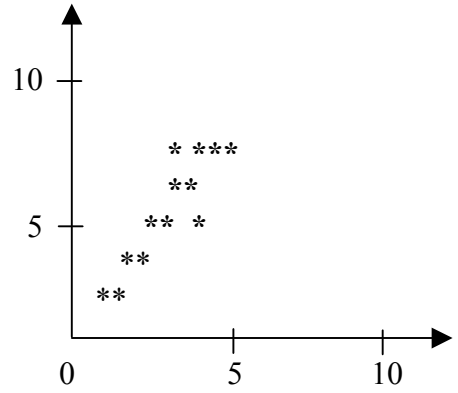
36. The stem-and-leaf plot shown below presents Jim's math test scores for the first half of the year. What is the median of Jim's math test scores?

Jim's Math Test Grades

6	0
7	2 9
8	0
9	1 3 5 6 9

A) 80
B) 85
C) 91
D) 99

38. Which line best fits this data?



A) $y = \frac{1}{2}x$

B) $y = -\frac{1}{2}x$

C) $y = 2x$

D) $y = -2x$

44. For the set of data shown below, which measure (mean, median, mode) has the **greatest** value?

81, 90, 86, 91, 60, 81, 70, 81, 86, 91

A) mean
B) median
C) mode
D) mean and median are the same

54. In math class, Barbara has a 91 average on five tests. Her scores on the first four tests were as follows:

87, 93, 94, 100.

What was the score of the fifth test?

E) 75
F) 81
G) 91
H) 93

61. In which set of data are the mean, median, and mode equal to 4?

A) {1, 3, 4, 1, 6, 4}
B) {4, 3, 4, 5, 5, 4, 3, 4}
C) {4, 5, 10, 7, 4}
D) {5, 7, 1, 3, 6, 2, 4}