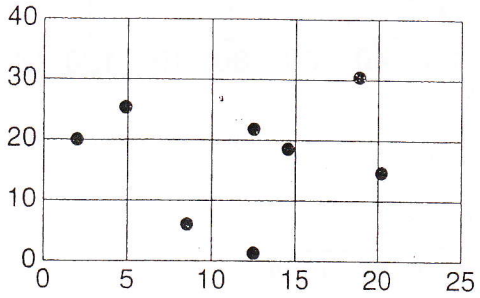
Name KEY

Date _____ Class____

Can You Find a Line of Best Fit?

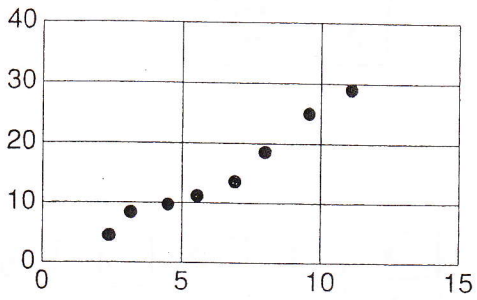
Tell whether a line of best fit for each scatter plot would have a positive or negative slope. If a line of best fit would not be appropriate for the data, write *neither*.

1.



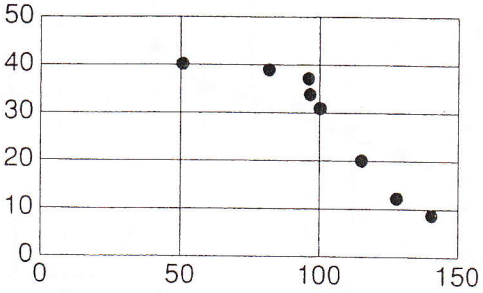
neither

2.



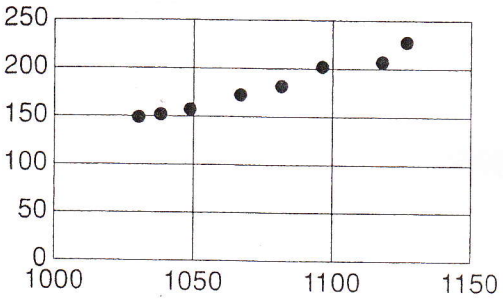
positive

3.



negative

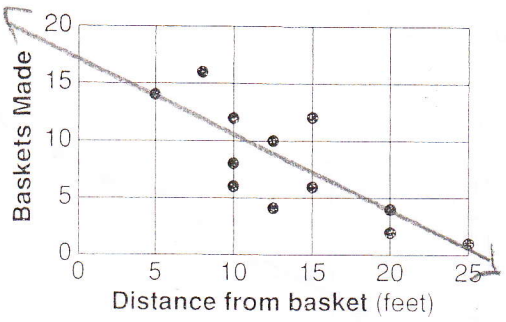
4.



positive

Draw a line of best fit for each graph. Describe the slope and find an approximate value for the *y*-intercept of the line of best fit.

5.

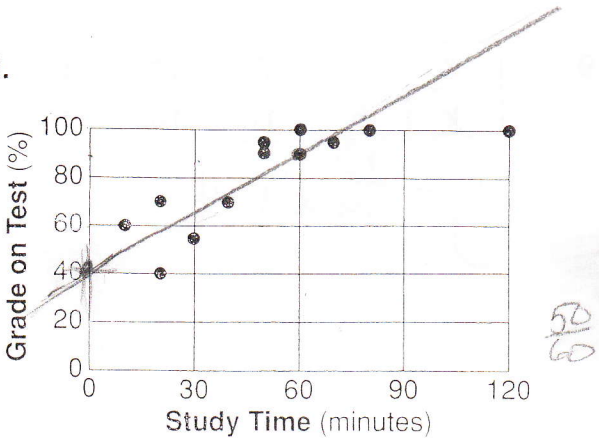


The line of best fit slants downward.

The slope of the line is $-\frac{2}{3}$ neg.

The *y*-intercept is approximately 17.

6.



50/60

The line of best fit slants upward. pos

The slope of the line is $\frac{5}{6}$.

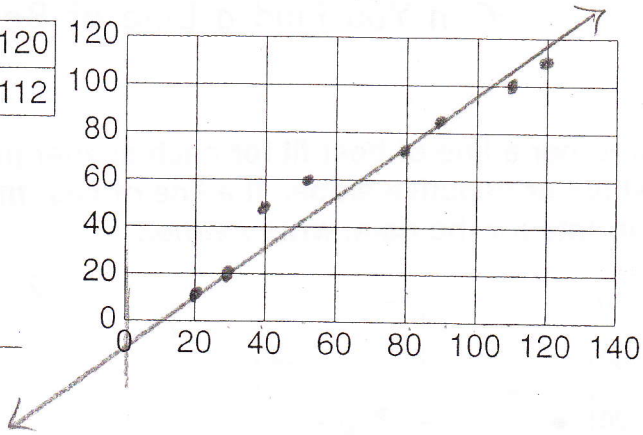
The *y*-intercept is approximately 40.

Plot the data and find a line of best fit.

7.

x	20	30	50	60	80	90	110	120
y	13	20	40	54	75	82	100	112

$y = 1x - 5$

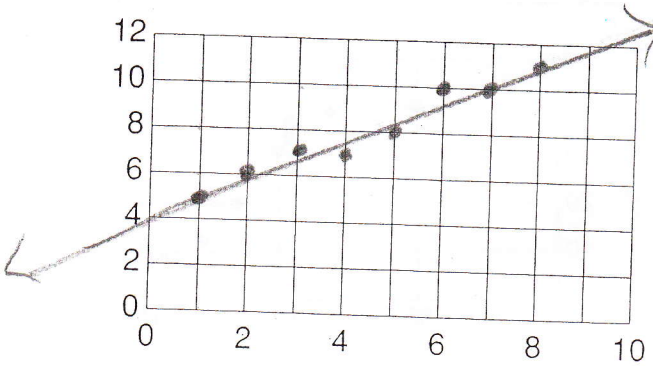


$\frac{60}{60} = 1$

8.

x	1	2	4	5	7	3	6	8
y	5	6	7	8	10	7	10	11

$y = \frac{5}{6}x + 4$

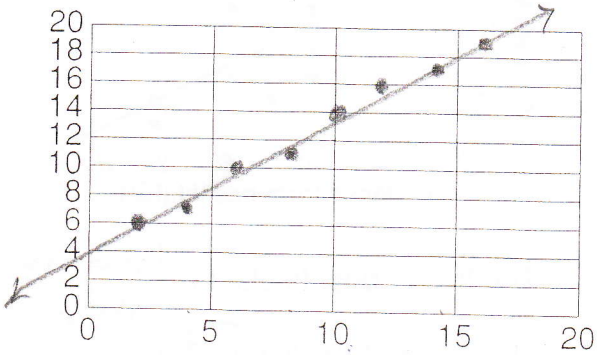


$\frac{5}{6}$

9

x	2	8	12	4	14	6	16	10
y	6	11	16	7	17	10	19	14

$y = \frac{13}{14}x + 4$



$\frac{13}{14}$