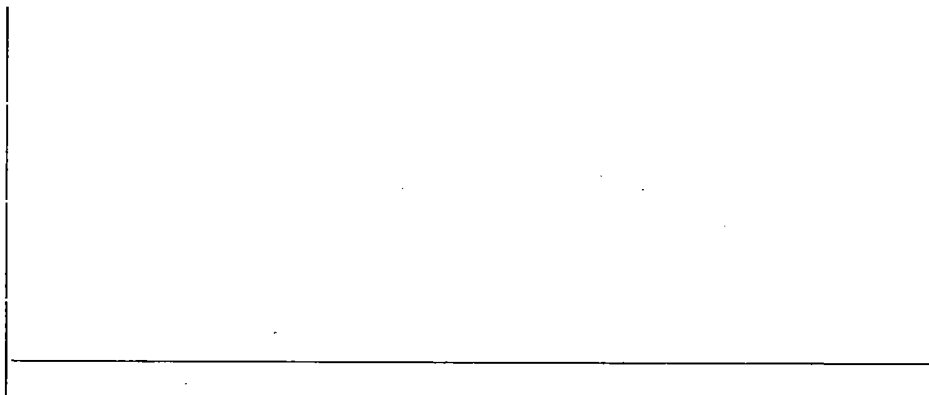


9. The following is a chart of the age and weight in of lion seals in Newport, Oregon.

age in months (x)	4	8	11	15	18
weight in pounds (y)	18	35	36	40	50

a. Draw a scatterplot on the grid below. Be sure to label the graph and the axes carefully.



b. Looking at your plot, would you say that the data has a positive correlation, negative correlation, or no correlation. Explain.

c. Find the equation of the least-squares line. _____

d. Then draw the line on your scatterplot .

e. Label the y-intercept _____ and point (\bar{x}, \bar{y}) . _____

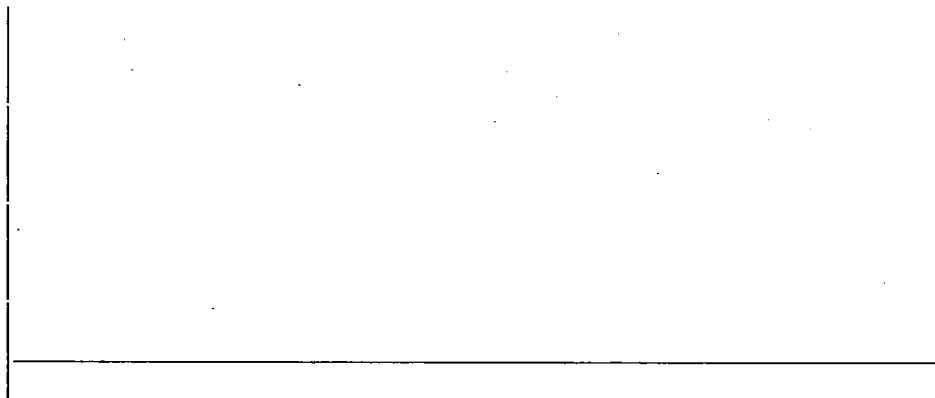
f. If a 13 month old seal was weighed, what would you expect it's weight to be?

g. If you weighed a seal and it's weight was 21 pounds, what would you expect it's age to be?

10. The following is a chart of the age and weight in of healthy Shetland ponys.

age in months (x)	3	6	12	18	24
weight in kilograms (y)	60	95	140	170	185

a. Draw a scatterplot on the grid below. Be sure to label the graph and the axes caretully.



b. Looking at your plot, would you say that the data has a positive correlation, negative correlation, or no correlation. Explain.

c. Find the equation of the least-squares line. _____

d. Then draw the line on your scatterplot .

e. Label the y-intercept _____ and point (\bar{x}, \bar{y}) . _____

f. Find the correlation coefficient, and state it's meaning.

g. Find the coefficient of determination and explain it's meaning:

coeff = _____. This means that ____% of the _____
and that ____% is _____.