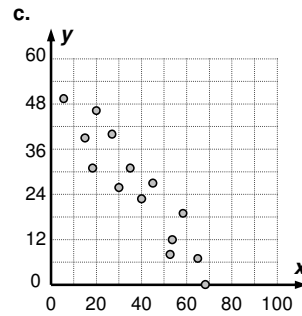
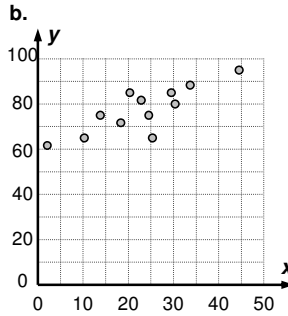
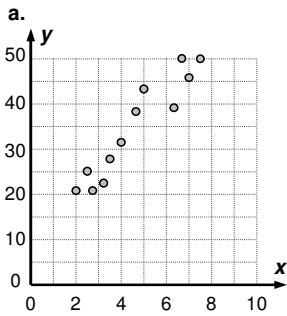


More With Scatter Plots: Classwork

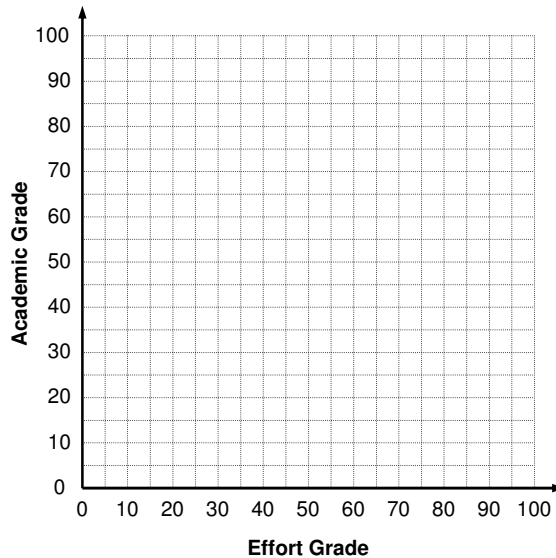
1. Each of the scatter plots show a correlation (relationship). Draw a trend line and write an equation for the line. Show your work.



2. Is there a relationship between your effort and your academic grade? The data below shows the effort grade and academic grade for part of a class.

- a. Make a scatter plot of the data. Title the graph.

Effort Grade %	Academic Grade %
29	67
34	60
47	64
48	52
70	76
73	80
73	87
76	61
87	89
88	84
90	74
95	89
96	96
98	98
98	87
98	90
100	94
100	100



- c. Use a ruler to draw in a trend line.
- d. Find the y-intercept of your line.
- Find the slope of your line (as a decimal). Show your work.
- Write an equation for your trend line.
- e. Use your line to predict the academic grade of a student with a 60% effort grade. Show your work.
- f. Use your equation to predict the effort grade of a student with a 75% academic grade. Show your work.

More With Scatter Plots: Homework

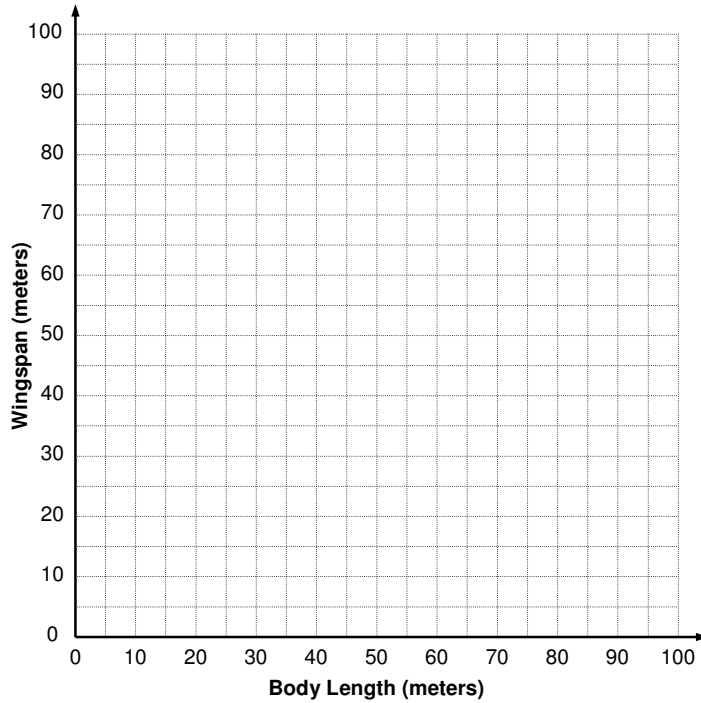
6. Use the data on page 64 to make a scatter plot of the (*body length*, *wingspan*) data from the table.

a. Use a ruler to draw in a trend line.

b. Find the slope of your line (as a decimal). Show your work.

Find the y-intercept of your line.

Write an equation for your line.



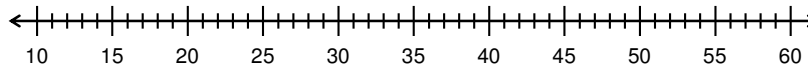
7. Ernie wants to buy the new math game for his Xbox 720. He called around and found that the video game was being sold for the following prices.

18	26	26	28	29	30	30	30	32	35	36	38	49
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a. Find the five-number summary.

Min: LQ: Median: UQ: Max:

b. Make a box-and-whisker plot for the prices. Be sure to include a title.



c. Make a histogram for the prices. Be sure to include all necessary information.

