

Indicators

Objective:

4.01 Collect, organize, analyze, and display data (including scatterplots) to solve problems.

Vocabulary and Resources		
coordinate plane	trend/correlation	negative relationship
dependent variable	positive correlation	no correlation
independent variable	positive relationship	no relationship
trend line	negative correlation	constant relationship
line of best fit		

A. When creating a scatterplot, on which axis should the independent variable be graphed? The dependent variable? Using the table below, create a scatterplot:

MidView Basketball Team Data

Player	Shots Attempted	Shots Made
A	240	160
B	200	110
C	130	50
D	80	60
E	76	70
F	36	20
G	20	10

Which is the independent variable? Which is the dependent variable?

Is there a positive, negative or no correlation for the data? Draw a line of best fit for the data.

B. Determine whether a scatter plot for the following situations would have a positive correlation, negative correlation, or no correlation.

1. Amount of time spent studying and students' test averages
2. Outside temperature and heating costs
3. Your savings account number and the balance in the account

C. Each point on the graph below represents a different bag of sugar.

1. Which bag is heaviest?
2. Which bag is the least expensive?
3. Which bags are the same weight?
4. Which bags cost the same price?
5. Which has the better value for the money, *F* or *C*? How do you know?
6. Which has the better value for the money, *B* or *C*? How do you know?
7. Which bags give the same value for the money? How do you know?

