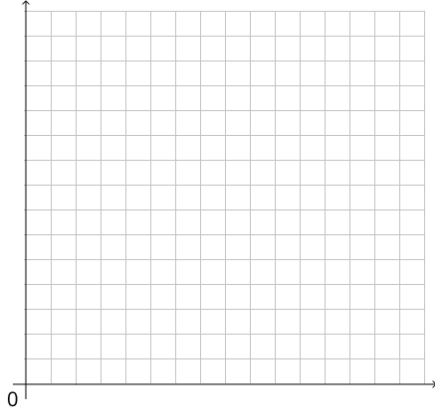


Name: _____

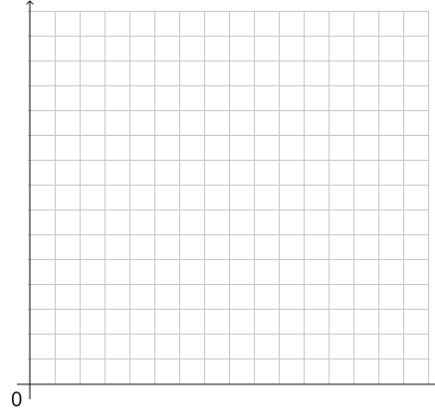
Date: _____

1. Use the blank coordinate planes to draw a scatter plot with each of the following characteristics.

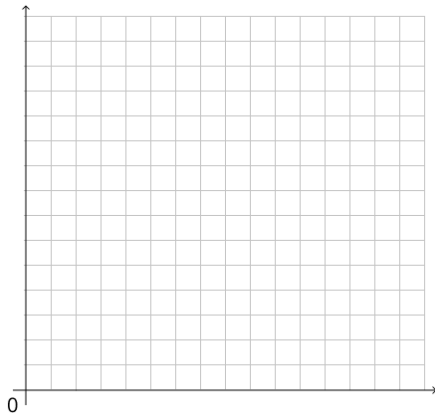
a. A positive, linear relationship.



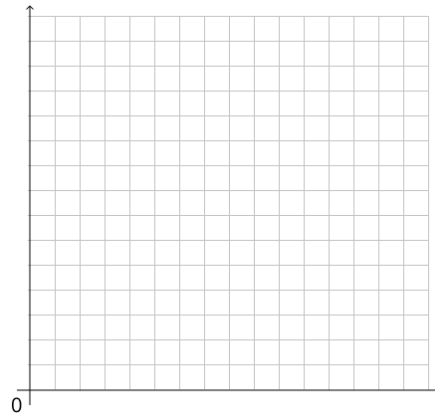
b. A strong, negative, linear relationship.



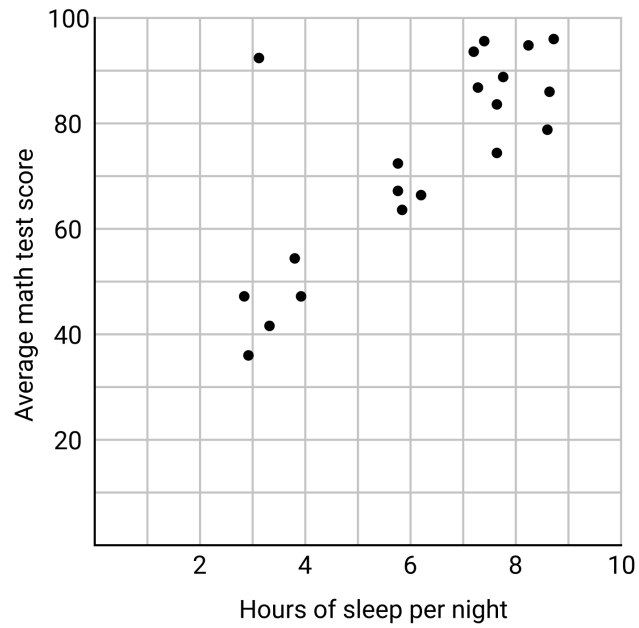
c. No relationship.



d. A weak relationship.



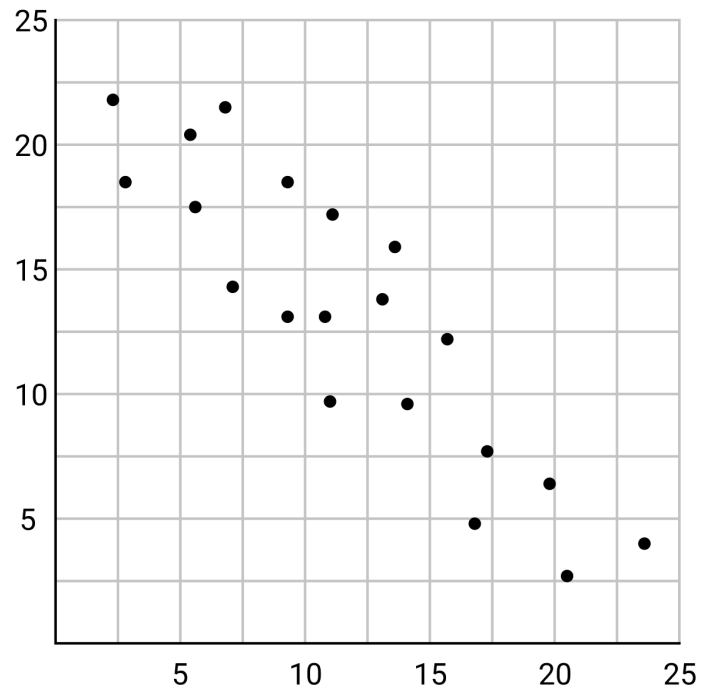
2. Hans is curious about whether there is a relationship between the amount of sleep students get and their math test score averages. He creates a scatter plot to represent these data. His plot is shown below.



a. Describe any relationship you seen between the variables.

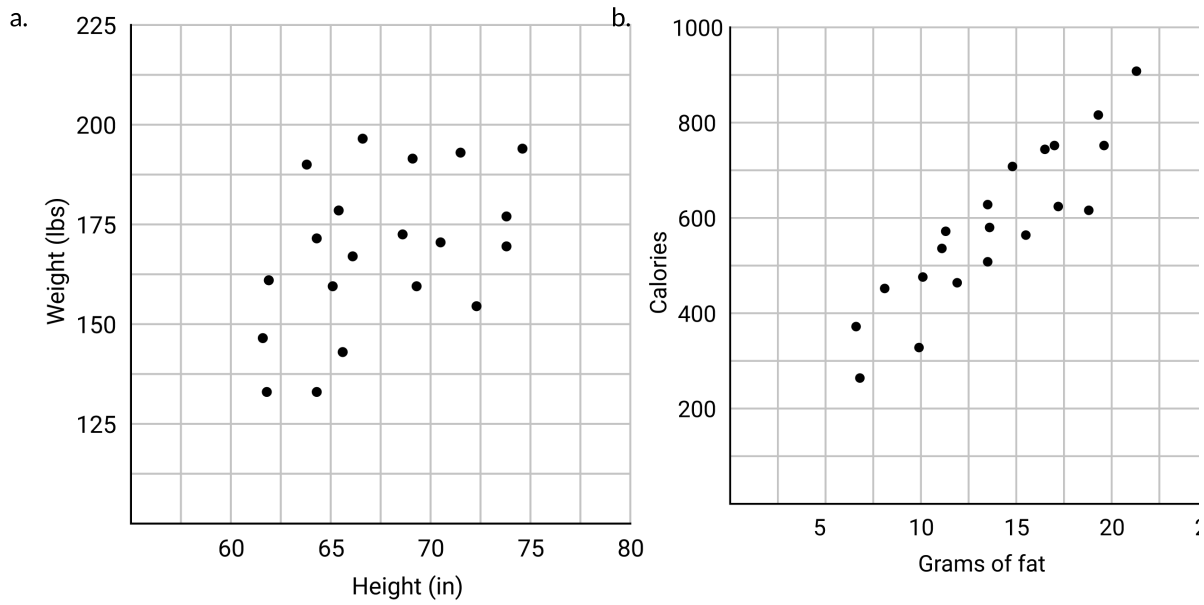
b. Describe any outliers or clusters you see in the data. Explain what these mean in the context of the problem.

3. Select **all** of the following descriptions that accurately reflect the relationship between the two variables on the scatter plot below.



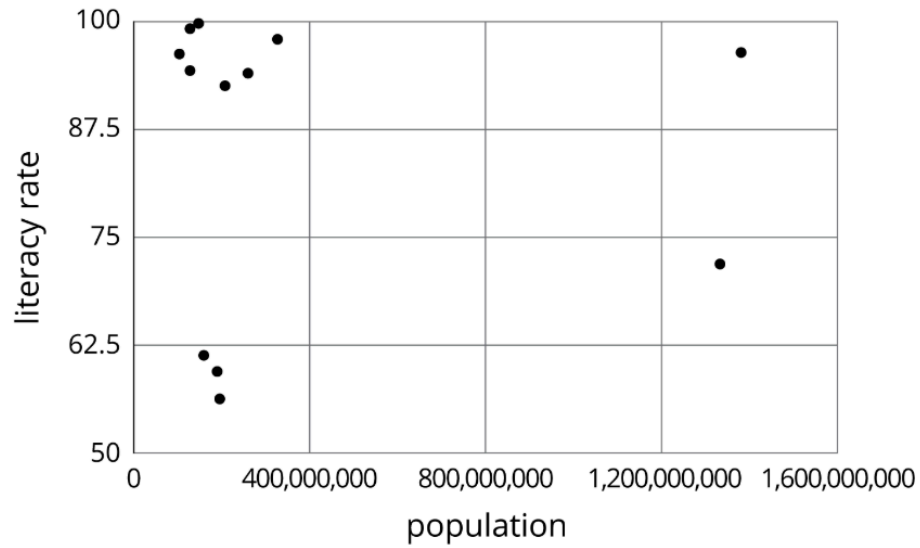
- A. Linear association
- B. Nonlinear association
- C. Positive association
- D. Negative association
- E. Strong association
- F. Weak association
- G. No association

4. Make an educated guess for a coordinate point that would fall on each of the scatter plots below.



5. Look back at your answers to #4. Do you feel more confident in your guess for a point in Plot A or Plot B? Explain your reasoning.

6. Literacy rate and population for the 12 countries with more than 100 million people are shown in the scatter plot.



a. Circle any clusters in the data. What could these mean in the context of the situation?

b. What could any outliers mean in the context of the situation?

Sources

6. Open Up Resources [Grade 8 Unit 6 Lesson 7](#) – Practice Problem 1

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