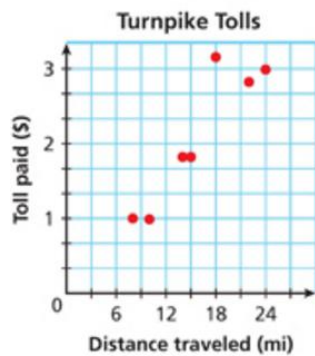
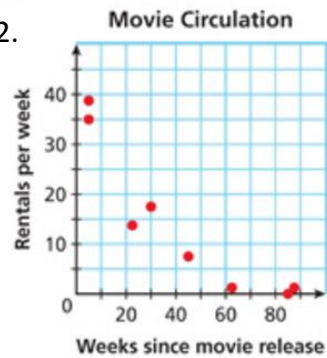


Describe the correlation illustrated by each scatter plot.

1.



2.



Identify the correlation you would expect to see between each pair of data sets.

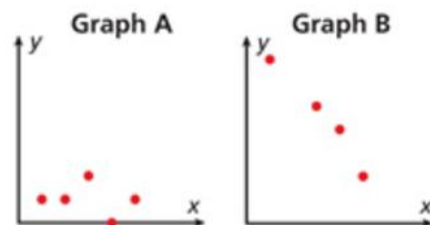
- the volume of water poured into a container and the amount of empty space left in the container
- a person's shoe size and the length of the person's hair
- the outside temperature and the number of people at the beach

Identify the correlation you would expect to see between each pair of data sets.

- the speed of a runner and the distance she can cover in 10 minutes
- the year a car was made and the total mileage

Choose the scatter plot that best represents the described relationship. Explain.

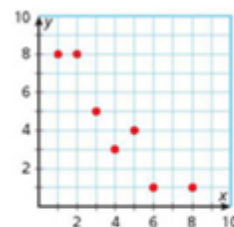
- the number of college classes taken and the number of roommates
- the number of college classes taken and the hours of free time.



- Write About It** Tell which correlation coefficient, $r = 0.65$ or $r = -0.78$, indicates a stronger linear relationship between two variables. Explain your answer.

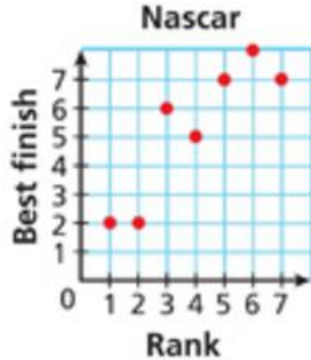
- Which could be the correlation coefficient of this graph?

- A -1.00
 B -0.93
 C 0.93
 D 1.00



Describe the correlation illustrated by each scatter plot.

12.

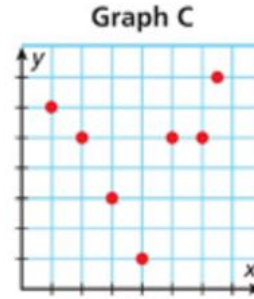
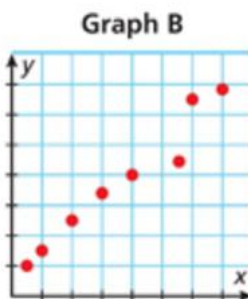
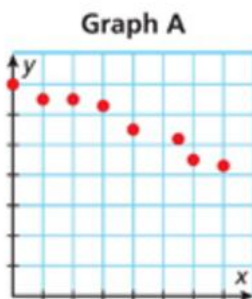


13.



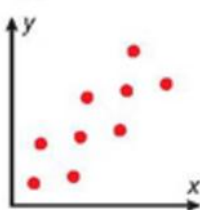
Choose the scatter plot that best represents the described relationship.

14. age of car and number of miles traveled
15. age of car and sales price of car
16. age of car and number of states traveled to

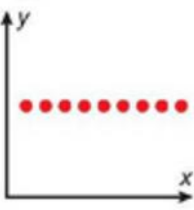


17. Which graph is the best example of a negative correlation?

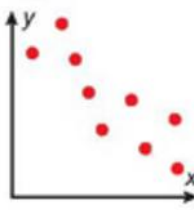
Ⓐ



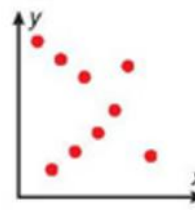
Ⓑ



Ⓒ



Ⓓ



18. Which situation best describes a positive correlation?

- Ⓕ The amount of rainfall on Fridays
- Ⓖ The height of a candle and the amount of time it stays lit
- Ⓗ The price of a pizza and the number of toppings added
- Ⓙ The temperature of a cup of hot chocolate and the length of time it sits