

Name _____

Mrs. Roumbos

Date _____

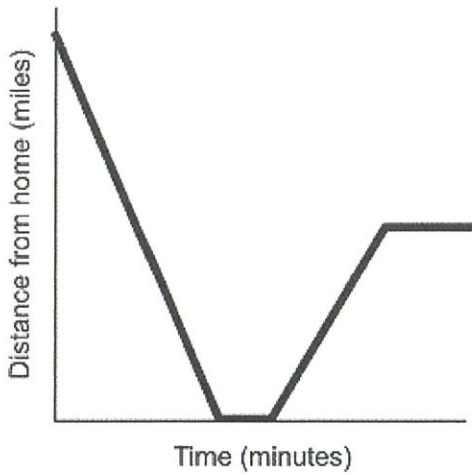
8R Period _____

Classwork Day 6

Match the graph below with the best description of the relationship it shows.

1.

Trey's Bike Ride

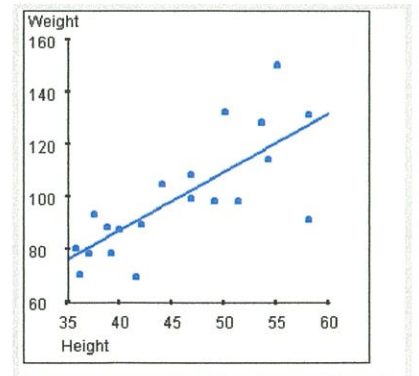


- a. Trey goes from home to a store, and then stops at a friend's house on the way home.
- b. Trey goes from home to a friend's house, and then rides to a store.
- c. Trey goes from a friend's house toward home, stops at a store on the way home, then goes home.
- d. Trey goes from a friend's house to home, gets a coat, rides to a store, and goes inside.

2. Max's weekly earnings are described by the equation $y = 4x + 75$, where x is the number of hours he works. If Max earned \$195 one week, how many hours did he work?

**Steps: _____

3. What relationship can be made in terms of Height? Weight?



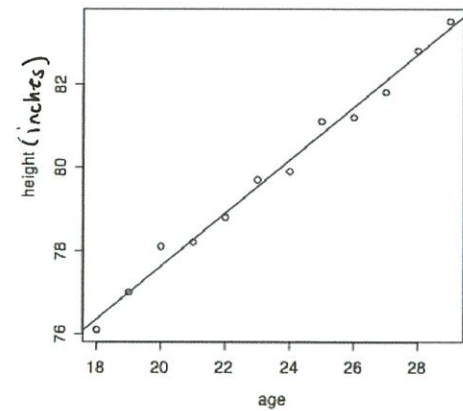
**Steps: _____

4. The table below shows how much Mary pays to rent DVDs.
Create an expression that can be used to find the total cost of renting any number n of DVDs?

#	\$
3	6
6	9
9	12
12	15

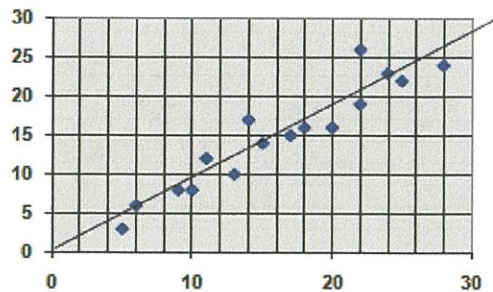
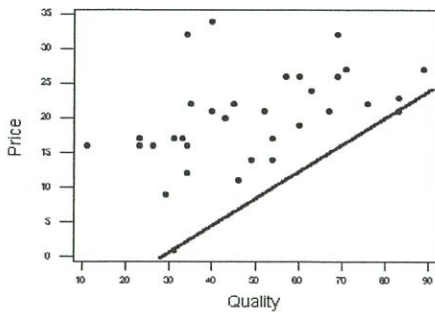
**Steps: _____

5. Using the trend line, what would someone's height be at 22 yrs old?



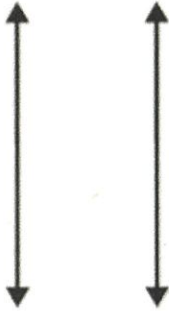
** Steps: _____

6. Which graph shows the correct line of best fit for the data ?



**Steps: _____

7. How many solutions do the following systems of equations have?



**Steps: _____

8. A phone company charges a one-time set-up fee and a monthly service charge.

The total cost is modeled by the function $y = 20 + 10x$. Which statement represents the meaning of each part of the function?

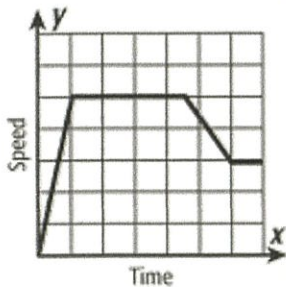
- (1) y is the total cost, x is the number of months of service, \$10 is the installation fee, and \$20 is the service charge per month.
- (2) y is the total cost, x is the number of months of service, \$20 is the installation fee, and \$10 is the service charge per month
- (3) x is the total cost, y is the number of months of service, \$20 is the installation fee, and \$10 is the service charge per month
- (4) x is the total cost, y is the number of months of service, \$10 is the installation fee, and \$20 is the service charge per month

** Steps: _____

Now you try!

9.

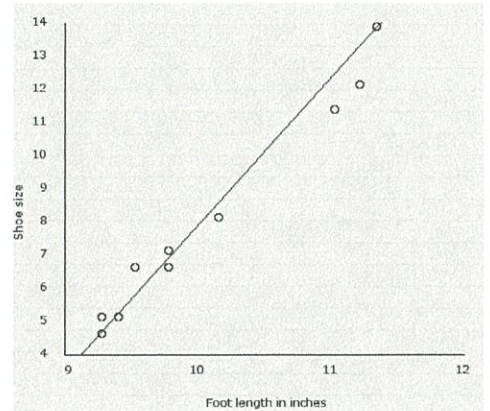
Which of the following situations corresponds to this graph?



- a. A car accelerates from a stop, travels at a constant speed, slows, and then travels at a slower speed.
- b. An airplane travels at a constant speed then decelerates to a slower speed.
- c. An athlete warms up by walking around the track, runs, then jogs.
- d. A bicyclist accelerates, travels at a constant speed, then slows to a stop.

10. Max's weekly earnings are described by the equation $y = 6x + 300$, where x is the number of hours he works. If Max earned \$570 one week, how many hours did he work?

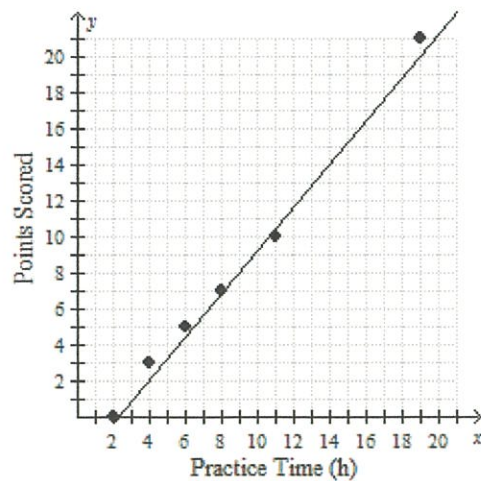
11. What relationship can be made in terms of foot length?
Shoe size?



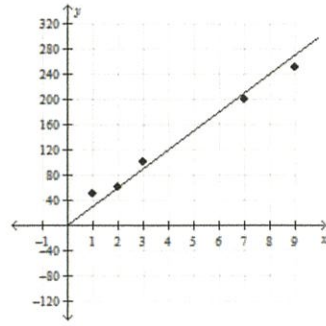
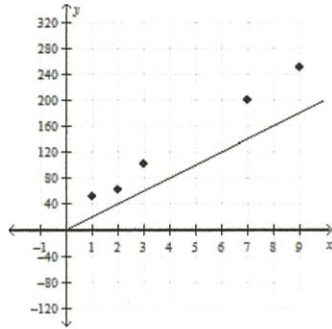
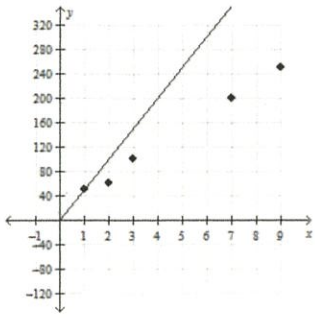
12. The table below shows how much Mary pays to rent DVDs.
Create an expression that can be used to find the total cost of renting any number n of DVDs?

#	\$
0	3
2	8
4	13
6	18

13. Using the trend line, how many points would someone score who practiced for 8 hours?



14. Which graph shows the correct line of best fit for the data ?



15. How many solutions does the following systems of equations have?



16. A phone company charges a one-time set-up fee and a monthly service charge. The total cost is modeled by the function $y = 50 + 30x$. Which statement represents the meaning of each part of the function?

- (1) y is the total cost, x is the number of months of service, \$30 is the installation fee, and \$50 is the service charge per month.
- (2) x is the total cost, y is the number of months of service, \$30 is the installation fee, and \$50 is the service charge per month
- (3) x is the total cost, y is the number of months of service, \$50 is the installation fee, and \$30 is the service charge per month
- (4) y is the total cost, x is the number of months of service, \$50 is the installation fee, and \$30 is the service charge per month