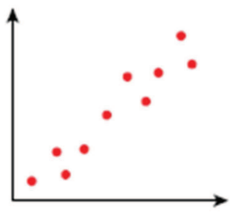
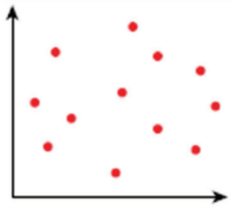
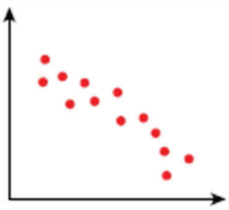
Scatter Plots

Write whether the following graphs represent a "*positive correlation*," "*negative correlation*," or "*no correlation*."

1. 

2. 

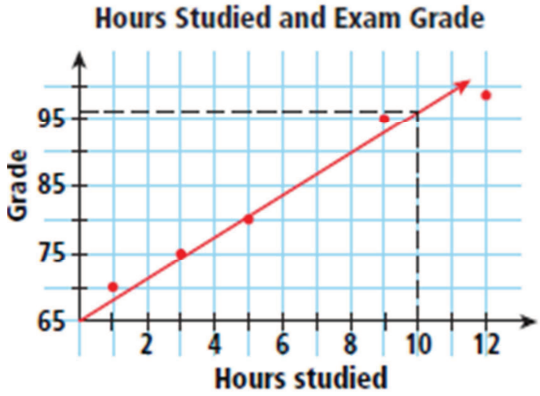
3. 

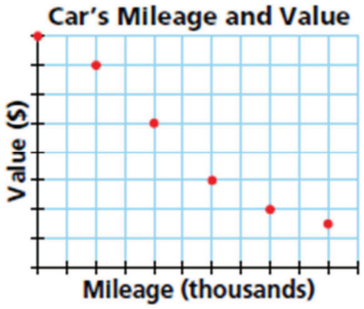
4. Are exam grades going up or down when students study more?

   Does this show a "*positive correlation*," "*negative correlation*," or "*no correlation*" ?

   What do you think your grade would be if you studied for 3 hours?

   What do you think your grade would be if you studied 8 hours?



5. 

   Is the car's value going up or down when they get older and have more mileage?

   Does this show a "*positive correlation*," "*negative correlation*," or "*no correlation*" ?

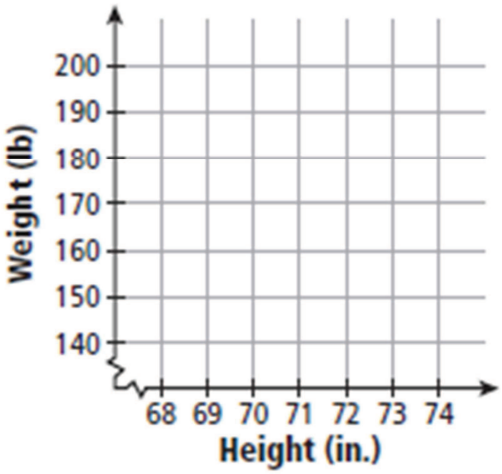
6. Use the table to construct a scatter plot showing the relationship between height and weight.

Height (in.)	Weight (lb)
71	170
68	160
70	175
73	180
74	190

   Is there a "*positive correlation*," "*negative correlation*," or "*no correlation*" between the height and weight?

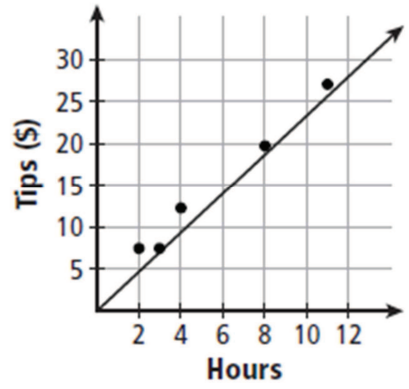
   Why do you think this is?

   If you were to connect these points with a line, why would the line not be straight?



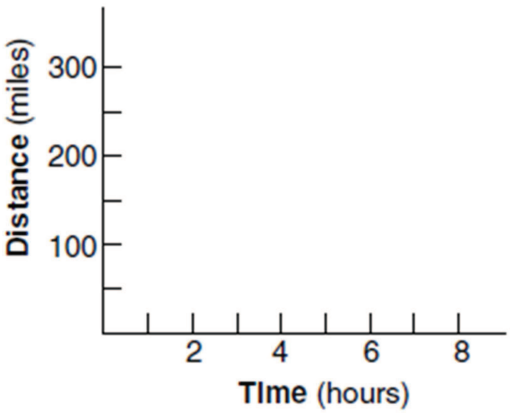
7. Approximately how much a worker will earn in tips in 10 hours? Use the graph and the table to help you make your estimate.

Hours	4	8	3	2	11
Tips ($)	12	20	7	7	26



8. Use the data in the table to construct a scatter plot showing the relationship between the time spent driving and the distance you are from home.

Time (hours)	1	2	2.5	6
Distance (miles)	50	150	175	270

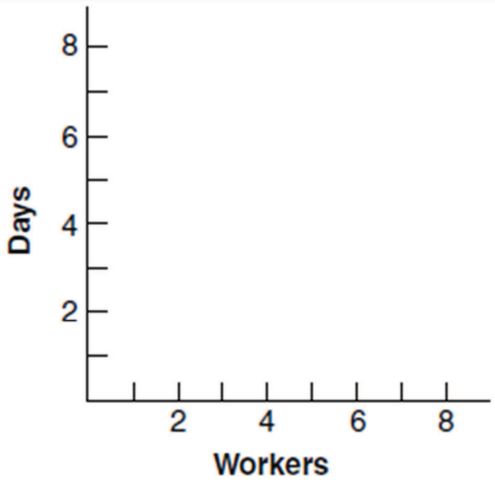


Is there a "*positive correlation*," "*negative correlation*," or "*no correlation*" between the time spent driving and the distance you are from home?

Why do you think this is?

9. Use the data in the table to construct a scatter plot showing the relationship between the number of workers and the number of days it takes to build a house.

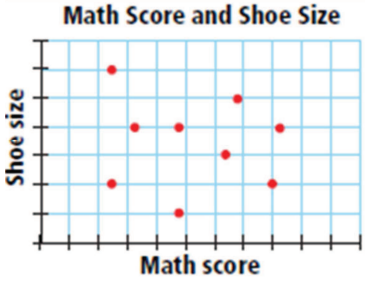
Number of Workers	6	4	2	1
Number of Days	1	2	5	7



Is there a "*positive correlation*," "*negative correlation*," or "*no correlation*" between the number of workers and the number of days it takes to build a house?

Why do you think this is?

10. Is there a "*positive correlation*," "*negative correlation*," or "*no correlation*" between math scores and shoe size?



Why do you think this is?