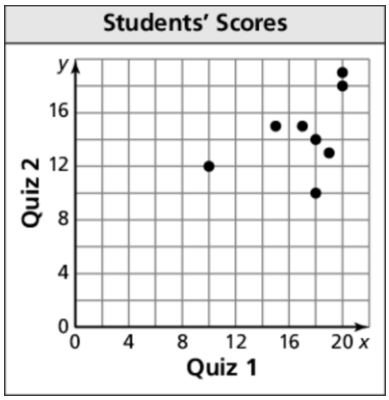
Name_____ Date _____

4.4 Practice A & B

1. The scatter plot shows students' scores for Quiz 1 and Quiz 2.



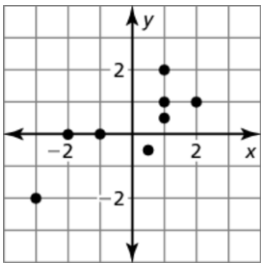
a. What is the Quiz 1 score for a student who earned a score of 13 on Quiz 2?

b. Did any student(s) earn the same score on both Quiz 1 and Quiz 2? Explain in a complete sentence.

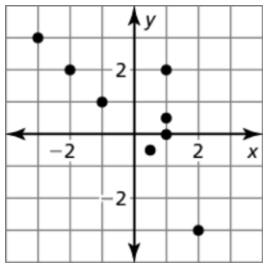
c. Does there appear to be a difference between the Quiz 1 scores and the Quiz 2 scores? Explain in a complete sentence.

In Exercises 2 and 3, tell whether *x* and *y* show a *positive*, a *negative*, or *no* correlation.

2.



3.



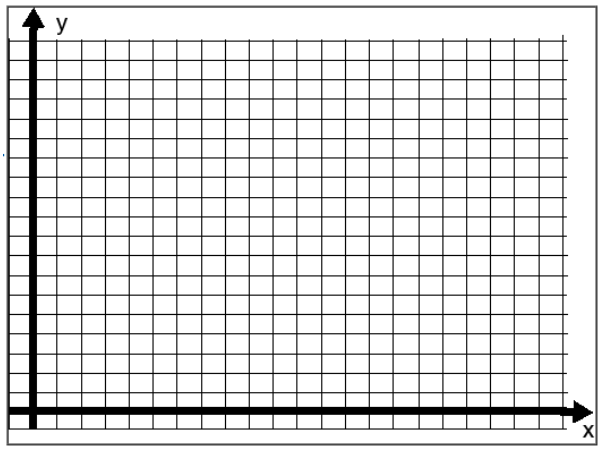
4. The table shows the number *y* of pineapple plants in a garden *x* years since 2004.

x	2	3	4	7	8	9
y	4	7	9	15	16	19

a. Graph the data on the scatter plot provided. Label each axes appropriately.

b. Write an equation that models the approximate number of pineapple plants as a function of the number of years since 2004.

c. Interpret the slope and *y*-intercept of the line of fit using words in terms of the variables.



5. The scatter plot shows the prior bowling averages of competitors at the bowling tournament and their highest scores during the tournament.

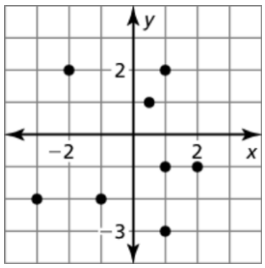
a. How many competitors bowled above their average during the tournament?

b. Did any bowler(s) bowl their average as their highest score? Explain in a complete sentence.

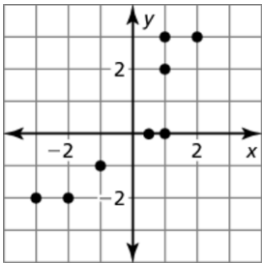
c. What are the scores of the competitors with the greatest difference between their bowling average and their highest score?

In Exercises 6 and 7, tell whether *x* and *y* show a *positive*, a *negative*, or *no* correlation.

6.



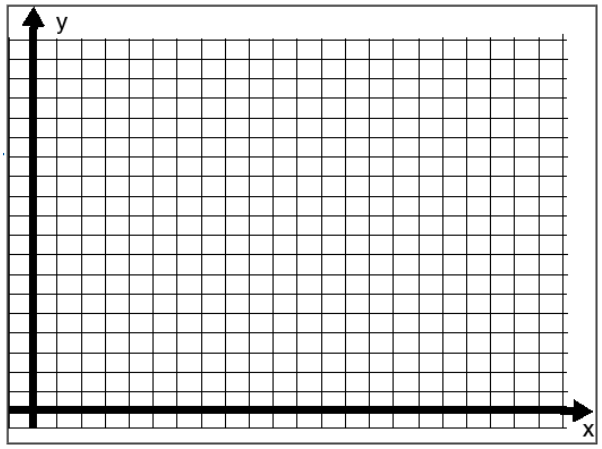
7.



8. The table shows the total number *y* of rolls of wrapping paper sold by a student after *x* weeks.

x	1	2	3	4	5	6
y	3	5	9	12	17	24

a. Graph the data on the scatter plot provided. Label each axes appropriately.



b. Write an equation that models the number of rolls of wrapping paper as a function of the number of weeks.

b. Interpret the slope and *y*-intercept of the line of fit using words in terms of the variables.