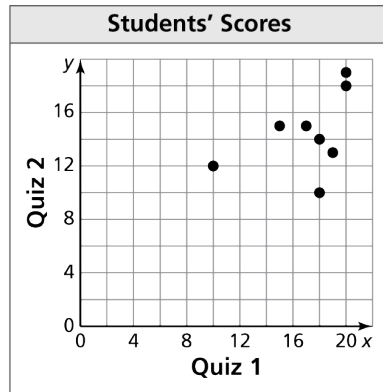


**Algebra 1**  
**Section 4.4 Worksheet**

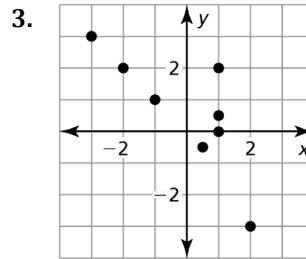
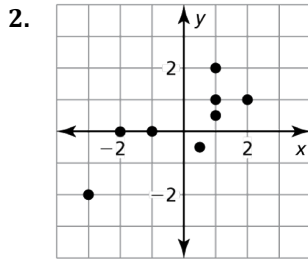
Name \_\_\_\_\_

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



- What is the Quiz 1 score for a student who earned a score of 13 on Quiz 2?
- Did any student(s) earn the same score on both Quiz 1 and Quiz 2? Explain.
- Does there appear to be a difference between the Quiz 1 scores and the Quiz 2 scores? Explain.

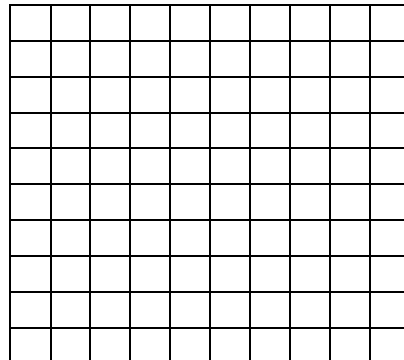
In Exercises 2 and 3, tell whether  $x$  and  $y$  show a *positive*, a *negative*, or *no* correlation.



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

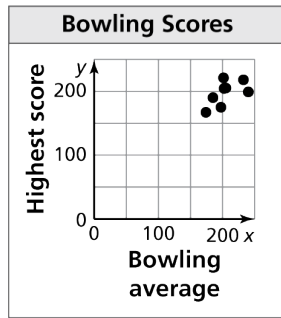
$x$	2	3	4	7	8	9
$y$	4	7	9	15	16	19

- Write an equation that models the approximate number of pineapple plants as a function of the number of years since 2004.
- Interpret the slope and  $y$ -intercept of the line of fit.



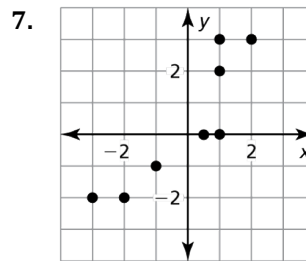
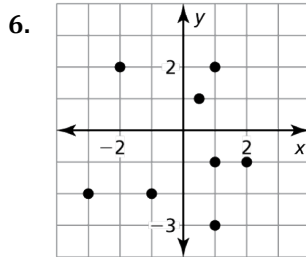
5. The scatter plot shows the prior bowling averages of competitors at the

bowling tournament and their highest scores during the tournament.



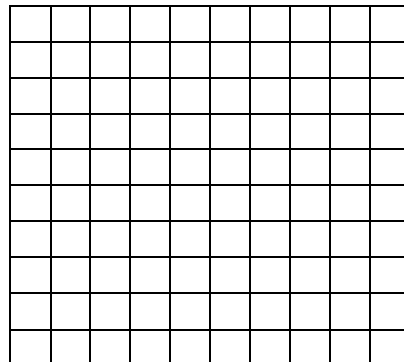
- How many competitors bowled above their average during the tournament?
- Did any bowler(s) bowl their average as their highest score? Explain.

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



- 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



- Write an equation that models the number of rolls of wrapping paper as a function of the number of weeks.
- Interpret the slope and  $y$ -intercept of the line of fit.