Name Period

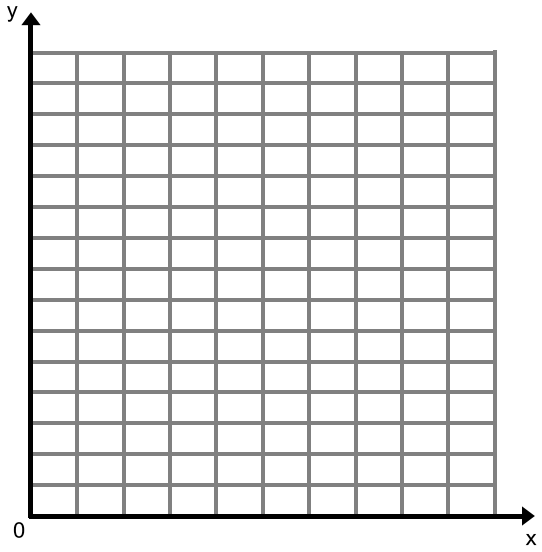
Intermediate 2 **Graphing with Context** **Assignment 2-1**

1. Paradise Valley Orchards is selling 1 bushel of apples for $15. 2 bushels cost $30. 3 bushels cost $45. 4 bushels cost $60. 5 bushels cost $75.

   a. Identify the **independent** variable in this situation: _____

   b. Identify the **dependent** variable in this situation: _____

   c. Complete the graph and table below for this relationship. Make sure to label the columns in the table and axes on the graph.

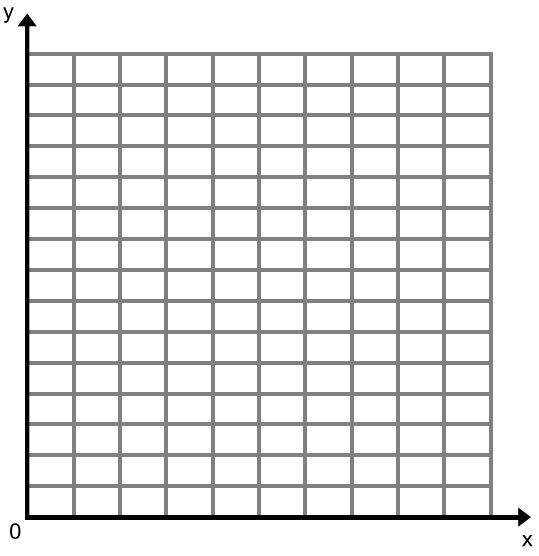


2. Miguel is taking a road trip and is driving at a constant speed of 65 miles per hour. How many miles will he travel after 1 hour? _____ 2 hours? _____ 3 hours? _____ 4 hours? _____ 5 hours? _____

   a. Identify the **independent variable** in this situation: _____

   b. Identify the **dependent variable** in this situation: _____

   c. Complete the graph and table below for this relationship. Make sure you label the columns and axes in your table and graph.

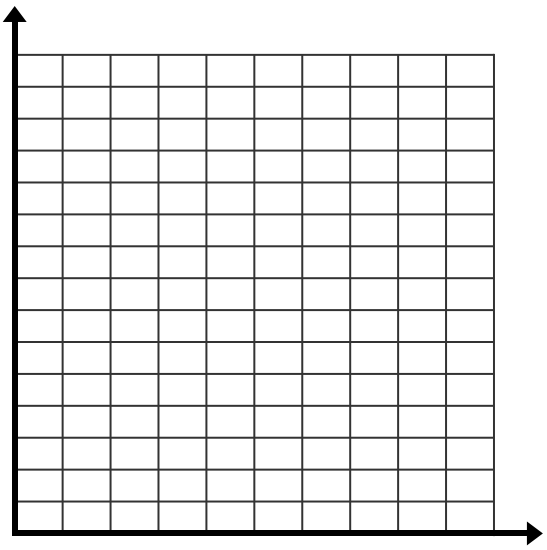


3. The drama club is selling tickets to the Fall Ball. They use $2 from each ticket sale for food and decorations.

    a. Identify the **independent variable** in this situation: _____

    b. Identify the **dependent variable** in this situation: _____

    c. Create a table and graph for this context. Make sure you label the columns on the table and the axes on the graph.



Directions: Each of the following situations represents a relationship between two quantities. Underline the two variables. Put an I above the independent variable and a D above the dependent variable.

4. As the size of your family increases so does the cost of groceries.

5. The value of your car decreases with age.

6. The greater the distance a sprinter has to run the more time it takes to finish the race.

7. A car has more gas in its tank can drive a farther distance.

8. A child's wading pool is being inflated. The pool's size increases at a rate of 2 cubic feet per minute.

9. A tree grows 15 feet in 10 years.

10. There are 5 inches of water in a bucket after a 2 ½ hour rain storm.