

1. A boat rental shop rents paddleboats for a fee plus an additional cost per hour. The cost of renting for different numbers of hours is shown in the table.

| | | | | |
|---------------------|----|----|----|----|
| Time (hours) | 0 | 1 | 2 | 3 |
| Cost (\$) | 10 | 11 | 12 | 13 |

What is the independent variable, and what is the dependent variable?
How do you know? (Explore Activity 1)

2. A car travels at a constant rate of 60 miles per hour. (Explore Activity 1)

| | | | | |
|-------------------------------------|---|---|---|---|
| Time x (h) | 0 | 1 | 2 | 3 |
| Distance y (mi) | | | | |

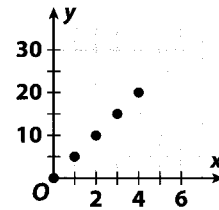
- a. Complete the table.
- b. What is the independent variable, and what is the dependent?

- c. Describe how the value of the independent variable is related to the value of the dependent variable.

Use the graph to answer the questions.

3. Describe in words how the value of the independent variable is related to the value of the dependent variable. (Explore Activity 2)

4. Describe a real-world situation that the graph could represent. Then describe the possible values for each variable. (Example 1)




ESSENTIAL QUESTION CHECK-IN

5. How can you identify the dependent and independent variables in a real-world situation modeled by a graph?

12.2 Independent Practice

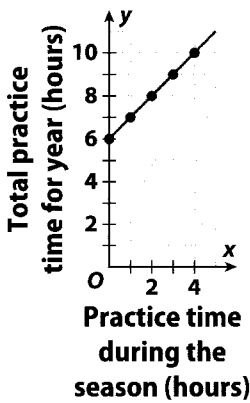
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6. The graph shows the relationship between the hours a soccer team practiced after the season started and their total practice time for the year.
- How many hours did the soccer team practice before the season began?

 - What are the two quantities in this situation?

 - What are the dependent and independent variables?

 - Describe the possible values for each variable.

 - Analyze Relationships** Describe how the value of the independent variable is related to the value of the dependent variable.

 - Analyze Relationships** Describe the relationship between the quantities in words.

7. **Multistep** Teresa is buying glitter markers to put in gift bags. The table shows the relationship between the number of gift bags and the number of glitter markers she needs to buy.

| | | | | |
|--------------------------|---|---|----|----|
| Number of gift bags, x | 0 | 1 | 2 | 3 |
| Number of markers, y | 0 | 5 | 10 | 15 |

- What is the dependent variable? _____
- What is the independent variable? _____
- Describe the relationship between the quantities in words.
