***Learning Targets:***

*I can plot coordinate pairs on a coordinate plane.*

*I can determine a pattern from a table or graph.*

*I can identify the dependent and independent variable and describe how they are related.*

***Mastery Scoring Sheet***

Overall score: \_\_\_\_\_\_\_\_\_\_/12 \_\_\_\_\_\_\_\_\_\_\_\_%

*Learning Target 1: I can plot coordinate pairs on a coordinate plane.*

Questions: 7, 8, 9

Score: \_\_\_\_\_\_\_\_\_\_\_/ 3 Circle: Met Did not meet

*Learning Target 2: I can identify a pattern from a table or graph.*

Questions: 1, 3, 5

Score: \_\_\_\_\_\_\_\_\_\_\_/ 3 Circle: Met Did not meet

*Learning Target 3: I can identify the dependent and independent variable and describe how they are related.*

Questions: 2, 4, 6

Score: \_\_\_\_\_\_\_\_\_\_\_/ 3 Circle: Met Did not meet

*Short response question: (3 pt. rubric)*

Score: \_\_\_\_\_\_\_\_\_\_\_/ 3

Correct = 3 pts. Partially Correct = 1 OR 2 pts. Incorrect = 0 pts.

Notes:

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\_\_\_\_\_\_\_\_1. Consider the table below:

**Theme Park**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number of Rides (r)** | 10 | 15 | 20 | 25 | 30 |
| **Cost (c)** | $25 | $37.50 | $50 | $62.50 | $75 |

Based on the table, how much would it cost (c) for 40 riders (r) to get on the ride?

A. $100 B. $87.50 C. $105.50 D. $90

\_\_\_\_\_\_\_\_ 2. Consider the following research study:

**A research study given to 2,000 participants investigated the correlation between salary and years of education. The study compared the years of education completed to the average salary a person makes.** **University students gave the survey.**

Which of the following correctly identifies the two variables in the study?

A. research study and years of education B. people working and years of education

C. years of education and university students D. years of education and average salary

\_\_\_\_\_\_\_\_\_3. Based on the graph, what is the pattern shown between the hours of travel and the miles traveled?

 **Traveling to Albany**

A. as the hours increased by 1,

the miles increased by 90

B. as the hours increased by 1,

the miles increased by 45

C. as the hours increased by 45,

the miles increased by 1

D. as the hours increased by 90,

the miles increased by 2

\_\_\_\_\_\_\_\_ 4. Based on the data table, identify the correct relationship between the two variables.

**Ski Rentals in Buffalo**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of Skis** | 5 | 10 | 15 | 20 |
| **Rental Cost ($)** | 255 | 505 | 755 | 1005 |

A. the rental cost ($) is the dependent variable and the number of skis is the independent variable

B. the number of skis is the dependent variable and the rental cost ($) is the independent variable

C. Buffalo is the dependent variable and the number of skis is the independent variable

D. the number of skis is the dependent variables and Buffalo is the independent variable

\_\_\_\_\_\_\_\_\_ 5. Points F, G, and H are represented on the grid shown below.



Which statement is true for each of the points?

A. The x-coordinate is $\frac{1}{2}$ the y-coordinate

B. the x-coordinate is 2 times the y-coordinate

C. the x-coordinate is 2 more than the y-coordinate

D. the x-coordinate is 3 more than the y-coordinate

\_\_\_\_\_\_\_\_6. A survey was given to people between the ages of 25-45 working in an office building. The results found that less people would order pizza for lunch if the price of a slice of pizza was raised by $0.10 each. Which of the following correctly identifies the relationship between the two variables?

A. the price of the pizza, the dependent variable, was changed by the results of the survey, the independent variable

B. the number of people ordering pizza for lunch, the independent variable, was affected by the price of the pizza, the dependent variable

C. the number of people ordering pizza for lunch, the dependent variable, was affected by the price of the pizza, the independent variable

D. the number of slices of pizza, the independent variable changed the price of the pizza, the dependent variable

\_\_\_\_\_\_\_\_7. The points plotted on the coordinate grid below show different locations in a city. The grid lines represent the city’s streets.

The city plans to build a parking lot at the location represented by the coordinates (8, 4). Which building is the shortest driving distance from the parking lot?

A. theater

B. library

C. museum

D. post office

\_\_\_\_\_\_\_\_8. What is the x-coordinate of point P on the coordinate grid?



A. $-1\frac{1}{2}$

B.$ \frac{1}{2}$

C. $-\frac{1}{2}$

D.$ 1\frac{1}{2}$

\_\_\_\_\_\_\_\_9. Point Q is shown on the coordinate grid below.



Which statement correctly describes the relationship between the point (-3, 2) and point Q?

A. It is reflection across the y-axis

B. It is a reflection across the x-axis

C. They are 6 units apart

D. They are 2 units apart

10. Based on the table, how many sides, *n*, would there be if the sum of the interior angles, *s*, is 1,080 degrees?

**Polygons**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of sides (n)** | 3 | 5 | 6 | ? |
| **Sum of the interior angles (s)** | 180 degrees | 540 degrees | 720 degrees | 1,080 degrees |

***Show your work:***

 **Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**