

Name: _____

HW

Lesson 9.7 Homework

Name the two quantities that are changing in each and determine which quantity is the dependent quantity and which is the independent quantity.

1. Wanda earns \$2 for every box of fruit sold as a fundraiser.
The dependent quantity is the total money earned by Wanda. The independent quantity is the number of boxes of fruit sold.
2. Mrs. Hart calculates quiz scores by giving students 4 points for every correct answer.
3. A car lot is offering a \$2500 discount on all new car purchases.
4. A rental car company charges customers \$40 for each day they rent a car.

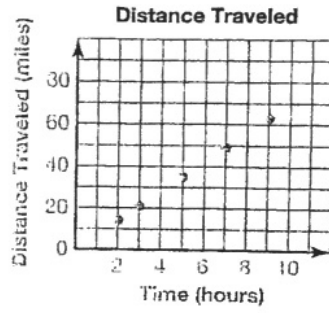
Determine the dependent variable and the independent variable in each given equation.

9. The equation $T = 75 - d$ is used to calculate the water temperature, T , at a depth, d , in a particular lake.
The variable T is the dependent variable because the temperature depends on the depth.
The variable d is the independent variable.
10. The equation $N = 75t$ is used to model car traffic on a particular interstate. The variable N represents the number of cars that travel past a certain point, and the variable t represents the time in minutes.
11. At Connie's Computers, the equation $s = p - 49.99$ is used to determine the sale price, s , of laptop computers with an original price, p .

Use the given table of values to complete the graph. Determine which quantity should be plotted on each axis and label each axis accordingly.

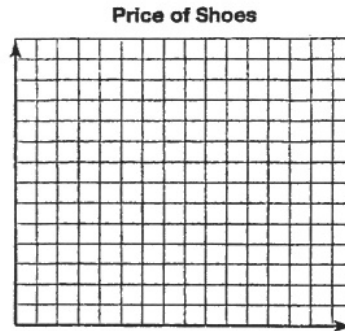
15.

Distance Traveled (miles)	Time (hours)
14	2
21	3
35	5
49	7
63	9



16.

Original Price (\$)	Sale Price (\$)
20	10
25	15
35	25
50	40
65	55



17.

Fruit Boxes Sold	Profit (\$)
15	30
20	40
25	50
30	60
40	80

