

Math 9 Linear Relations - Graphing a Linear Relation worksheet

Name: _____

Due Date: May 17th, 2019

The table shows the costs of gas for 15 customers at a gas station.

Volume of gas (L)	Cost (\$)
6	6.60
10	11.00
16	17.60
18	19.80
21	23.10
25	27.50
28	30.8
32	35.2
35	38.5
37	40.7

#1. What is the dependent variable? Explain

#2. Graph the data on grid paper. Remember to put a title and properly label each axis and to correctly choose a scale for each axis.

Make sure your volume goes from 0 to 50 L.

Make sure your Cost goes from 0 to \$60.

#3. Is this data discrete or continuous? Explain

#4. Should we connect the points?

#4. Use the graph to estimate each value:

a) the cost of:

i) 12 L of gas ii) 20 L of gas iii) 41 L of gas

b) the volume of gas that can be purchased for:

i) \$20.00 ii) \$43.00 iii) \$12.00

#5. Look up the term "Interpolate". Which values from number 4 did you interpolate?

#6. Look up the term "Extrapolate". Which values from number 4 did you extrapolate?

#7. Use the information that you've been given in this question to determine how much the gas costs per litre.