

Graphing exercises

Name: _____

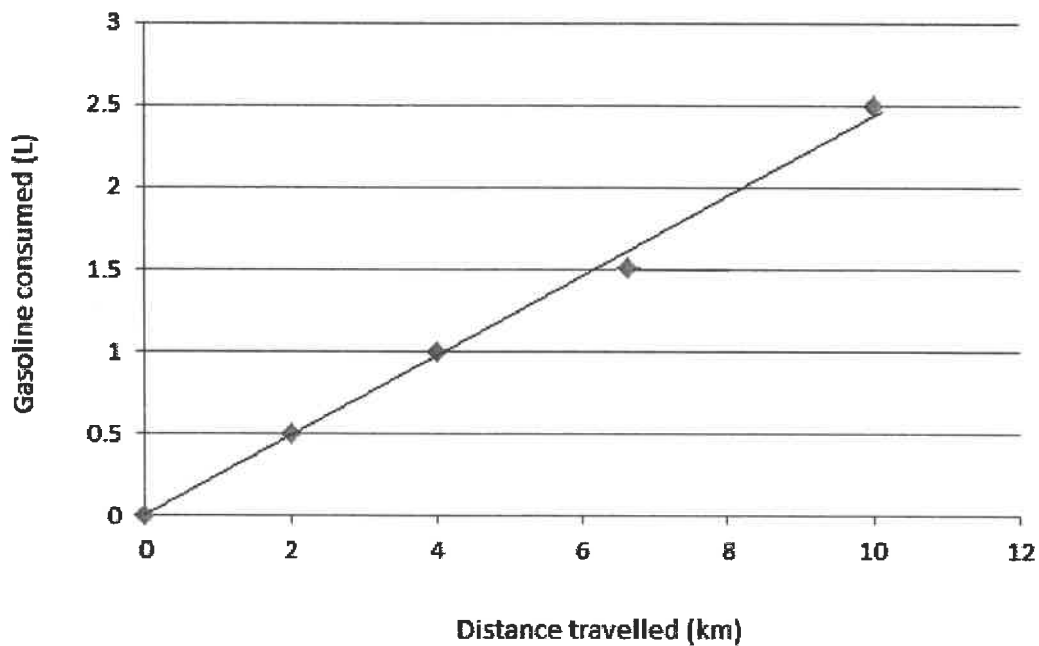
Date: _____

1. The following data was obtained in an experiment designed to measure the temperature of Barium while heating with a constant heat over a period of time.

Time of heating (min)	Temperature (°C)
0	23
1	27
2	31
3	35
4	39
5	42.5
6	45

- a. Which is the independent variable? _____
- b. Which axis does the independent variable go on? _____
- c. Plot the points on a graph using techniques as per the lesson on graphing.
- d. Write an equation which describes the line between 0 min and 4 min.

2.



a. Find the slope of the graph including the units. _____

b. What is the gasoline consumed in L/km of the vehicle in the above graph?

c. Write the equation for the line of best fit in the above graph.

d. Using the equation from question C, find the gasoline burned at:

20 km _____

100 km _____

625 km _____