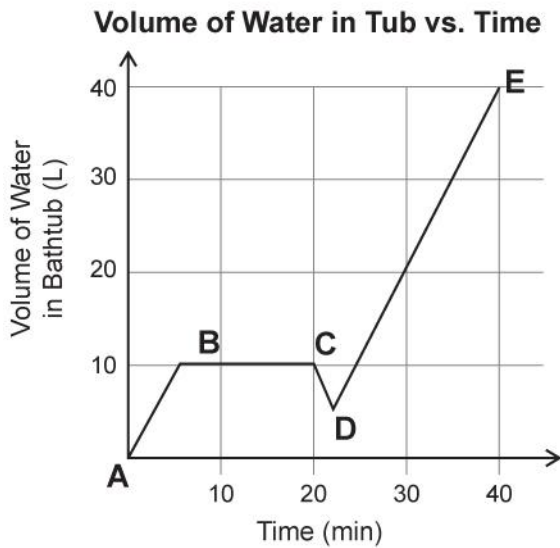


Lesson 3: Are You Ready? Print and Complete the following.

1. Use this graph to answer the following questions.



- Write a short story to explain the situation.
- What is the independent variable in the graph? Why?
- Explain any restrictions on the value of the independent variable.
- What is the dependent variable in the graph? Why?
- Explain any restrictions on the value of the dependent variable.

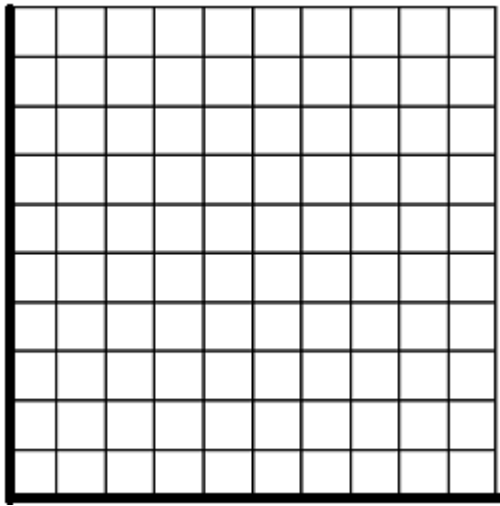
2. This chart shows how much water vapour (in grams) a kilogram of air can hold at different temperatures.

Temperature (°C)	Water Vapour (g/kg of air)
−40	0.1
−35	0.2
−30	0.3
−25	0.51
−20	0.75
−10	1.8
0	3.8
5	5
10	7.8
15	10
20	15
25	20
30	27.7
35	35
40	49.8

a. What is the domain of the relation?

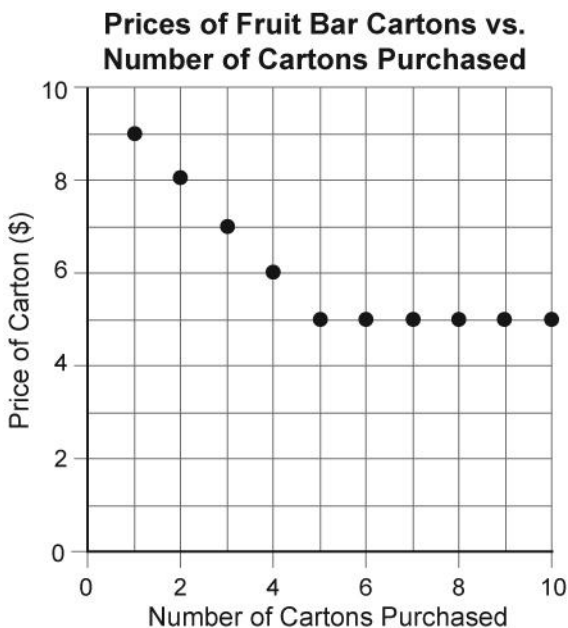
b. What is the range of the relation?

- c. Make a graph of the relation. Make sure to label the axes and give the graph a title.



3. A youth group is selling cartons of fruit bars to raise money for a field trip. The youth group decides to give an incentive for supporters to purchase several cartons at once.

Following is a graph showing the pricing of cartons of fruit bars according to the number of cartons purchased.



- a. What is the domain of the relation depicted by the graph?
- b. What is the range of the relation depicted by the graph?

- c. Create a chart showing the different prices of cartons of fruit bars