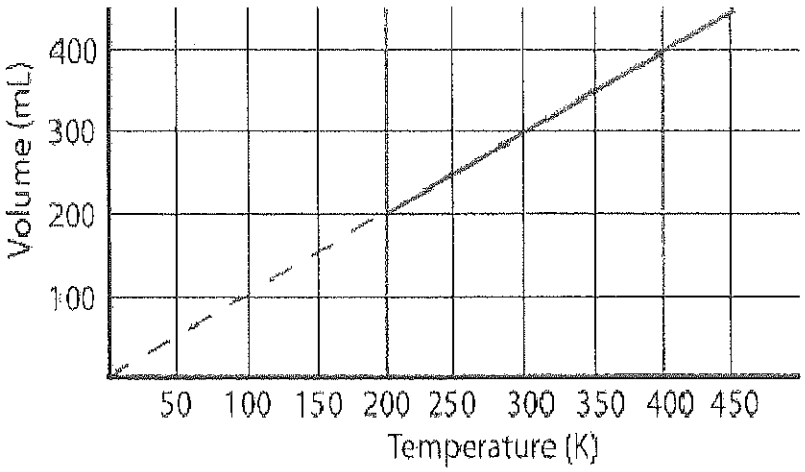
Khan Academy: Interpreting Linear Graphs Word Problems Example 1.

https://www.youtube.com/watch?v=xR9r38mZJK4

The graph below shows how the volume of a flexible, gas-filled balloon changes when the temperature is increased or decreases. The "dashed" part of the line signifies that no data was collected in that range



1. As the temperature is increased, the volume of the gas:
   a. Increases
   b. Decreases
   c. Remains constant
   d. There is not enough information to answer the question
2. The volume of the gas at a temperature of 300 K is:
   a. 0 mL
   b. 100 mL
   c. 200 mL
   d. 300 mL
3. If the temperature increases from 200 K to 400 K, the volume **changes** by:
   a. 400 mL
   b. 200 mL
   c. 0 mL
   d. There is not enough information to answer the question.
4. Which of the following conclusions can be drawn from the graph?
   a. A 100 Kelvin temperature change will always change the volume by 100 mL
   b. A 100 Kelvin temperature increase has a bigger effect on the volume at 200 K than at 350 K
   c. A 100 Kelvin temperature increase has a bigger effect on the volume at 350 K than at 200 K
   d. Increasing or decreasing the temperature has no effect on volume.