Unit 5: Proportional Reasoning Lesson 5.1
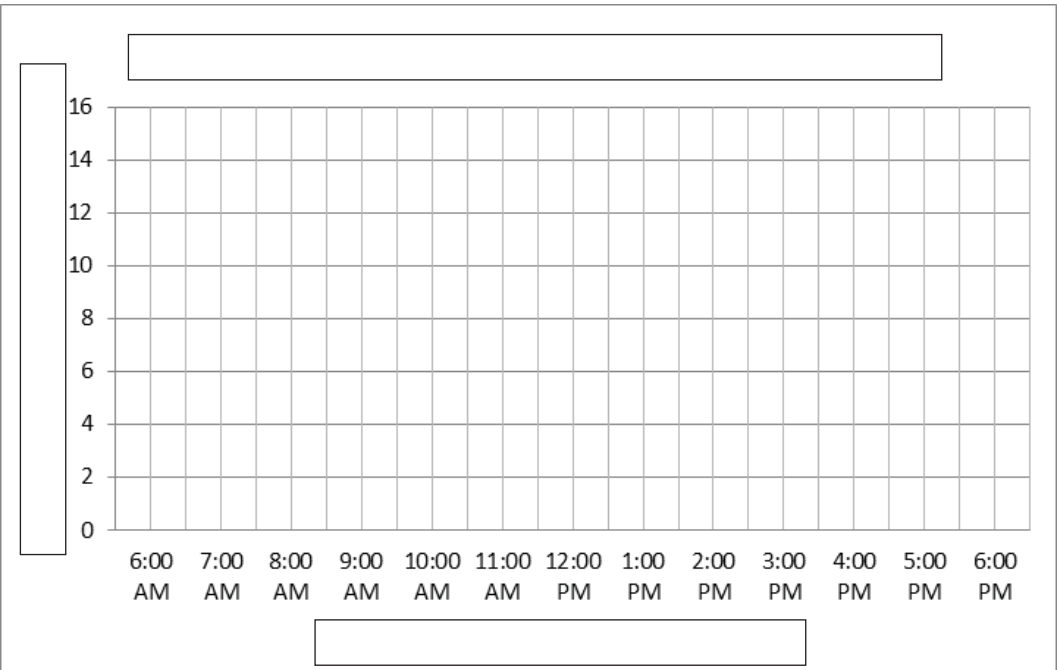
Game On!

(2)   1.   What is the difference between rate and unit rate? Give an example of both.

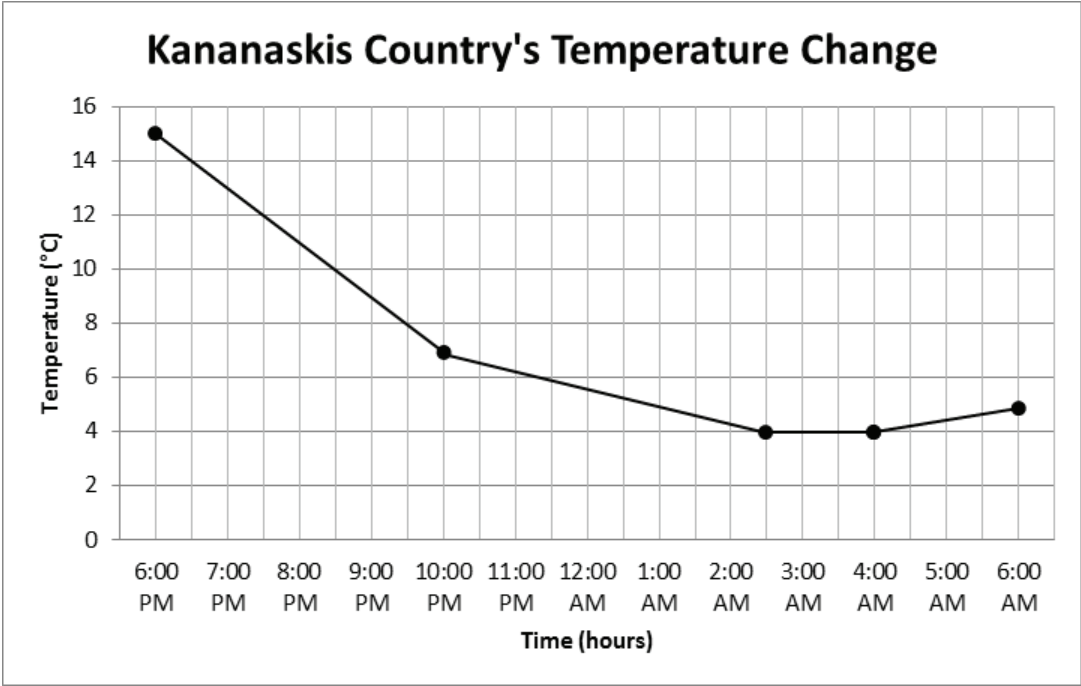_____

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(3)   2.   a.   Draw and label a graph that shows the temperature changes over a 12-hour period. The temperature starts at 8°C at 6 a.m. and increases to 12°C by 10 a.m. The temperature then remains constant for 1.5 hours. Next, the temperature increases by 2.5°C over 3.5 hours. Finally, the temperature remains constant until 6 p.m.

⑧ b. Find the rate of change in temperature for each time interval. (Hint: there are 4 calculations.)

2   3.   Given the following graph of Kananaskis Country's temperature over a 12-hour period in the
           spring, describe the temperature change for each time interval in terms of the slope of each line
           segment.

Kananaskis Country's Temperature Change

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②   4.   Michael owns a butcher shop. Gary brings in a 718 lb steer to be butchered. Michael charges
              $2146 to butcher the animal for Gary. What is the cost per pound that Gary pays for the
              butchering of his steer?

③   5.   Alex plays rugby and can burn approximately 650 calories in a 1.25-hour game. Danielle enjoys
              kickboxing and can burn approximately 420 calories in a 45-minute class. Who burns calories at
              a higher rate?

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You have completed *Lesson 5.1 Game On!* Please return to the *Module* and continue your training with *Lesson 5.2*.