Date:

6.2 Interpreting Graphs

MathLinks 9, pages 220-230

Key Ideas Review

For #1, unscramble the letters to form a word that correctly completes the sentence.

1. a) When values are found on a graph within a known range of values, this is

called _______LTNNPTIEOOARI

b) To find a value on a graph that is beyond the known range of values on a graph

is called __________PNALARXETITOO

c) On the graph to the right, find the value that

corresponds with 3.5 h worked. This practice is called

LTNNPTIEOOARI because the values are found

known values in a set.

NETEBEW



d) On the same graph, find the value that corresponds with 10 h worked. This

practice is called ______ because the values are found PNALARXETITOO ______ the known range of values.

ENDYOB

Check Your Understanding

 Is it reasonable to interpolate and extrapolate values from the graph? Explain.



3. The graph shows a relationship between weight and height jumped.



What is the approximate value of the w-coordinate when h = 32 cm? Which method did you use to determine the answer?

4. The following graph shows fuel consumption over time.



- a) Is it reasonable to extrapolate data from this graph? Explain.
- **b)** Approximately how much fuel has been used to travel 225 km?
- A spring is compressed after weights are placed on it. The spring fully compressed is 12 cm long and fully extended is 40 cm long.



- a) Is it reasonable to extrapolate data from this graph? Explain.
- **b)** What weight fully compresses the spring?
- c) When a 25-kg weight is placed on the spring, what is the spring's length?

 Continental drift occurs at a rate of about 1 cm to 10 cm per year. Assuming an average movement of 5.5 cm per year, use the graph to answer the following questions.



- a) Approximately how long will it take the plate to move 2 m?
- b) After 17 years, approximately how far will the plate have moved?Which method did you use to determine your answer?
- The table of values represents the dosage of a medicine needed by body weight.

Weight, kg	18	32	46	60
Dosage, mg	60	75	90	105

a) Plot the linear relation on a graph.



- b) From the graph, determine the approximate dosage needed for weights of 40 kg and 100 kg.
- c) From the graph, determine the approximate weights needed for dosages of 50 mg and 120 mg.