Ms. Lo

6.1 Graphs of Relations: Interpreting & Sketching Graphs

Date:

Vocabulary:

Name:

- <u>Graph: a diagram representing a</u> among two or more things by a number of distinctive dots, lines, bars, etc.
- Examples:
- 1. Each point on this graph represents a person. The graph represents a relationship between
- a) Which person is the oldest? _____
 - What is her or his age?_____
- **b)** Which person is the youngest? _____
 - What is her or his age? _____
- c) Which two people have the same height? ______
 What is this height? ______
- d) Which two people have the same age? _____What is this age? _____
- e) Which of person B or C is taller for her or his age? _____
- 2. Each point on this graph represents a bag of popcorn.
- a) Which bag is most expensive? _____
 - What does it cost?_____
- **b**) Which bag has the least mass? _____
 - What is this mass? _____
- c) Which bags the same mass? _____
 - What is this mass? _____
- d) Which bags costs the same? _____
 - What is this cost? _____
- e) Which bag has the best value for money? _____

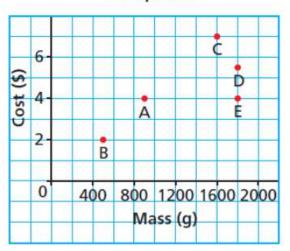
200. • G Height (cm) 150 E. • F D BC 100 -50 🗛 0 12 16 20 4 8

Age (years)

Ages and Heights of People

Block:____

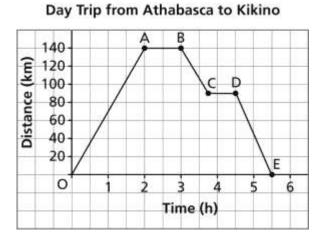
Costs and Masses of Various Bags of Popcorn



3. This graph represents a day trip from Athabasca to Kikino in Alberta, a distance of approximately 140 km. The graph represents a relationship between _____

Describe the journey for each segment of the graph.

Segment	Journey	
Segment OA		
AB		
BC		
CD		
DE		



Date: ____

Math 10

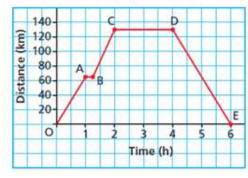
Name:

4. This graph represents a day trip from Winnipeg to Winkler in Manitoba, a distance of approximately 130 km. The graph represents a relationship between _____

_____. Describe the

journey for each segment of the graph.

Day Trip from Winnipeg to Winkler, Manitoba



The distance between Winnipeg and Winkler is 130 km.

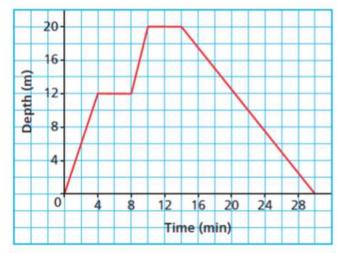
Segment	Journey
OA	
AB	
BC	
CD	
DE	

5. This graph represents a scuba diver's dive. The graph represents a relationship between _____

Answer the following questions:

- a) How many minutes did the dive last? _____ minutes
- b) At what times did she stop her descent? _____ min, _____ min
- c) What was the greatest depth the diver reached? _____ m
- d) For how many minutes was the diver at that depth? ____ min

A Scuba Diver's Dive



Name:			

6. At the beginning of a race, Alicia took 2 s to reach a speed of 8 m/s. She ran at approximately 8 m/s for 12 s, then slowed down to a stop in 2 s.

Sketch a graph of speed as a function of time. Label each section of your graph, and explain what it represents.

	1				

Segment	Journey
OA	
AB	
BC	

<u>HW:</u>

7 Section 6.1 P. 274 #1 − 4

Date: