

**ANSWER KEY**

**Algebra I** | **LESSON 2-1**

**Activities, Games, and Puzzles**

**1.** The cost will vary directly with the number of cans bought.

**2.** Answers may vary. Sample:



**3.** Answers may vary. Sample: An average person walks at a rate of about 3 mi/h.

**4.** Answers may vary. Sample:



**5.** Answers may vary. Sample: Changing the rate from 2.5 mi/h to 3 mi/h causes the  
second graph to become steeper.

**1**

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**ANSWER KEY**

**Additional Vocabulary Support**

**1.** increase

**2.** decrease

**3.** axis

**4.** quantities

**5.** axis

**6.** increase

**7.** quantities

**8.** decrease

**9.** increases

**10.** quantities

**11.** B

**12.** F

**Enrichment**

**1.** See points in graph for Exercise 2.



**2.**

**3.** Both sets of data show a repeating pattern. There is more variation in the data for

Seattle.

**2**

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**4.** The following year will probably yield data similar to the previous year.



**Practice Form G**

**1.** time and volume; The volume increases at a constant rate as time increases.

**2.** depth and temperature; The temperature decreases at a constant rate as the depth  
increases.

**3.** time and plant height; The height of a plant increases at a constant rate as time increases.

**4.** C; The graph shows a constant speed of 50 mi/h.

**5.** B; The graph shows varying speed.

**6.** A; The graph shows a constant speed of 60 mi/h.



**7.**



**8.**

**3**

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**ANSWER KEY**



**9.**

**10.** The graph indicates that the total cost for 3 DVDs is $5.99, which is not true. The total  
cost should be $45.97.





**11. a.**



**b.**

No; In the first graph the distance from school is decreasing and in the second graph

it is increasing.

**4**

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**ANSWER KEY**

**Practice Form K**

**1.** Time and temperature; As time increases, the temperature increases.

**2.** Altitude and oxygen level; As the altitude increases, the oxygen level decreases.

**3.** A

**4.** C

**5.** B



**6.**



**7.**



**8.**

**9.** The line should continue increasing. The third point should be at (3, 50).

**5**

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**ANSWER KEY**

**Reteaching**

**1.** time and total tiles installed; The number of tiles installed increases as time increases,  
and then there is a rest during which no tiles are installed, then more tiles are installed,  
another rest, and then more tiles are installed.

**2.** age and height; Up until Dior reaches a certain age, his height increases with age at  
various rates. Then he stops growing.

**3.** time and height; When a football is kicked, its height increases with time and then its  
height decreases with time.

**4.** C; as days increase, tickets sold increases

**5.** A; tickets sold decreases until day 4

**6.** B; as days increase, tickets sold decreases

**Think About a Plan**

**1.** Your speed will be constant since you are on a speed lift.

**2.** Your speed will continuously increase if you go straight down.

**3.** Much of the graph will be a horizontal line.

**4.** Much of the graph will be a line with a positive slope.



**5.**



**6.**

**7.** No; going up the ski slope requires riding a ski lift, which maintains a constant speed. If  
you ski straight down the ski slope, you would keep increasing your speed until you get  
to the end of the trail.

**6**

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