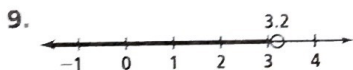
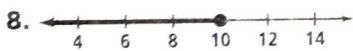
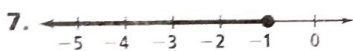
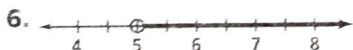


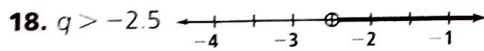
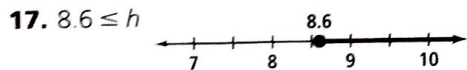
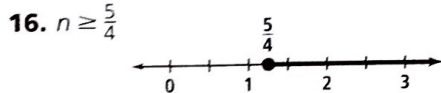
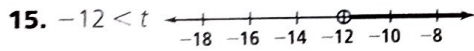
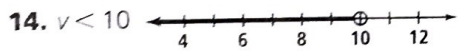
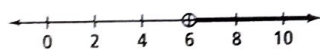
25. 10 girls 27. $\{x|x > -3\} \cap \{x|x < \frac{19}{3}\}$
 29. $\{w|w \leq -\frac{3}{4}\} \cup \{w|w \geq 1\}$ 31. $\{x|x < -7\} \cup \{x|x > 21\}$ 33. $W \cup Y \cup Z = \{0, 2, 3, 4, 5, 6, 7, 8\}$
 35. $W \cap X \cap Z = \{6\}$ 37. 62 patients 39. $A \cap B = A$
 41. $\{(\pi, 2), (\pi, 4), (2\pi, 2), (2\pi, 4), (3\pi, 2), (3\pi, 4), (4\pi, 2), (4\pi, 4)\}$ 43. {(reduce, plastic), (reuse, plastic), (recycle, plastic)} 45. Sometimes; when $A = B = C$, the statement is true. When A, B , and C are distinct sets the statement is false. 47. F 49. $x = 4$ or $x = -4$
 50. $n = 2$ or $n = -2$ 51. $f = 2$ or $f = 8$ 52. $y = \frac{4}{3}$ or $y = -\frac{8}{3}$ 53. $-5 \leq d \leq 5$ 54. $x \leq -4$ or $x \geq 10$
 55. $w < -15$ or $w > 9$ 56. $x = \frac{4}{3}$ or $x = -\frac{4}{3}$ 57. yes
 58. no 59. yes

Chapter Review pp. 222-226

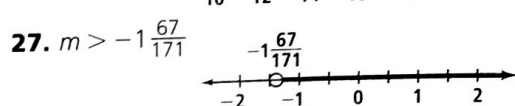
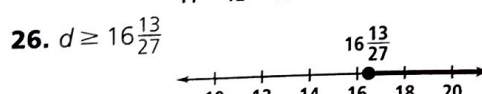
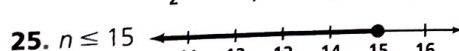
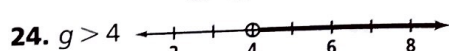
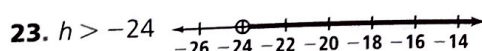
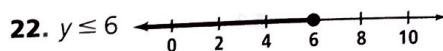
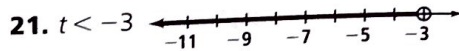
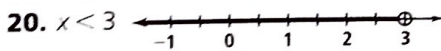
1. roster form 2. union 3. empty set 4. solution of an inequality 5. equivalent inequalities



10. $x > 5$ 11. $x \leq -2$ 12. $x > -5.5$ 13. $w > 6$



19. $4.25 + x \leq 15.00$; $x \leq 10.75$



28. $7.25h \geq 200$; at least 28 full hours 29. $k \geq -0.5$

30. $c < -2$ 31. $t < -6$ 32. $y \leq -56$ 33. $x < 2\frac{2}{3}$

34. $x \leq -13$ 35. $a \leq 5.8$ 36. $w > 0.35$ 37. $200 + 0.04s \geq 450$; $s \geq 6250$ 38. $\{ \}$ or \emptyset , $\{s\}$, $\{t\}$, $\{s, t\}$

39. $\{ \}$ or \emptyset , $\{5\}$, $\{10\}$, $\{15\}$, $\{5, 10\}$, $\{5, 15\}$, $\{10, 15\}$, $\{5, 10, 15\}$

40. $A = \{0, 2, 4, 6, 8, 10, 12, 14, 16\}$; $A = \{x|x \text{ is an even whole number less than } 18\}$ 41. $B' = \{1, 3, 5, 7\}$

42. $-2\frac{1}{2} \leq d < 4$ 43. $-1.5 \leq b < 0$ 44. $t \leq -2$

- or $t \geq 7$ 45. $m < -2$ or $m > 3$ 46. $2 \leq a \leq 5$

47. $6.5 > p \geq -4.5$ 48. $65 \leq t \leq 88$ 49. $y = 3$

- or $y = -3$ 50. $n = 2$ or $n = -6$ 51. $r = 1$ or $r = -5$ 52. no solution

53. $-3 \leq x \leq 3$ 54. no solution

55. $x < 3$ or $x > 4$ 56. $k < -7$ or $k > -3$

57. any length between 19.6 mm and 20.4 mm, inclusive

58. $A \cup B = A$

59. P 60. $N \cap P = \{x|x \text{ is a multiple of } 6\}$ 61. 5 cats

Chapter 4

Get Ready!

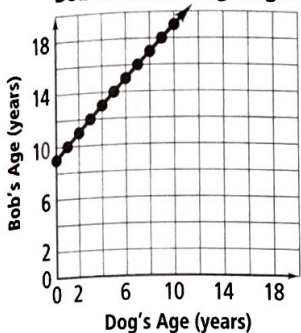
p. 231

1. -7 2. -18 3. 2 4. -1

5.

Bob's and His Dog's Ages (years)										
Dog's Age	0	1	2	3	4	5	6	7	8	9
Bob's Age	9	10	11	12	13	14	15	16	17	18

Bob's and His Dog's Ages



$B = 9 + d$, where B is Bob's age and d is his dog's age.

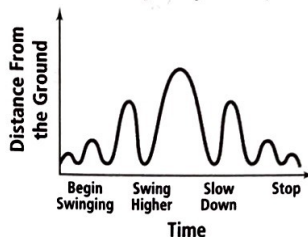
12. -3 13. 66 14. 6 15. 4 16. 0, -4 17. 3, 7
 18. no solution 19. $\frac{11}{2}, \frac{3}{2}$ 20. Its value is based on the first value. 21. 4 22. There are no breaks in the graph.

Lesson 4-1

pp. 234-239

Got It? 1a. Time, length; the length of the board remains constant for a time before another piece is cut off. **b.** Time, cost; the cost remains constant for a certain number of minutes. **2.** C

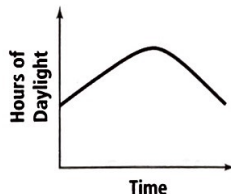
3a. Answers may vary. Sample:



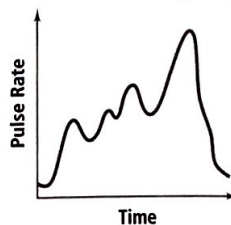
- b.** The end of the graph would decrease sharply.
Lesson Check 1. Car weight, fuel used; the heavier the car, the more fuel is used. **2.** The temperature rises slightly in the first 2 h and then falls over the next 4 h. **3.** rising slowly: B; constant: C; falling quickly: D
4. Answers may vary. Sample: the depth of water in a stream bed over time

Exercises 5. Number of pounds, total cost; as the number of pounds increases, the total cost goes up, at first quickly and then more slowly. **7.** Area painted, paint in can; the more you paint, the less paint left in the can. You are using the paint at a constant rate. **9.** A

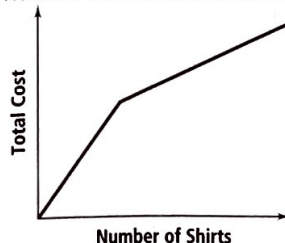
11. Answers may vary. Sample:



13. Answers may vary. Sample:



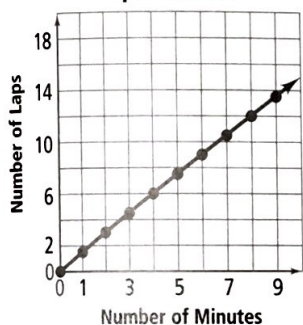
15. The graph shown represents the relationship between the number of shirts and the cost per shirt, not the total cost.



6.

Sue's Number of Laps per Minute										
Number of Minutes	0	1	2	3	4	5	6	7	8	9
Number of Laps	0	1.5	3	4.5	6	7.5	9	10.5	12	13.5

Sue's Number of Laps per Minute

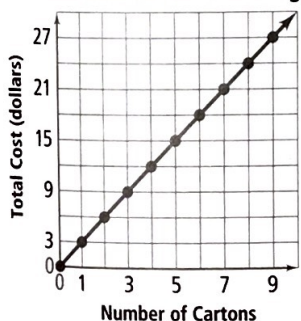


$\ell = 1.5m$, where m is the number of minutes and ℓ is the number of laps.

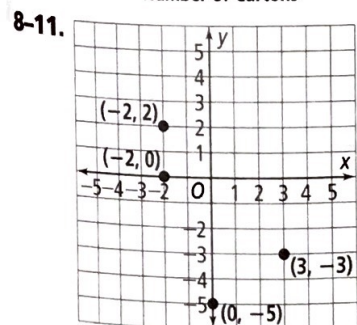
7.

Total Cost for Cartons of Eggs										
Number of Cartons	0	1	2	3	4	5	6	7	8	9
Total Cost (dollars)	0	3	6	9	12	15	18	21	24	27

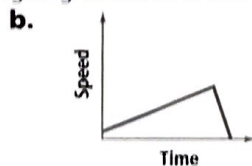
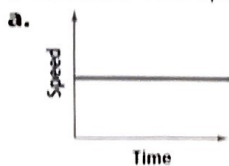
Total Cost for Cartons of Eggs



$C = 3n$, where C is the cost and n is the number of cartons.



17. No, they are not the same. Your speed on the ski lift is constant. Your speed going downhill is not.



19. The three runners start at the same time. At time A, one runner has a fast start, and the other two are a little slower. At B, the second-place runner catches up to the first-place runner and passes the first-place runner in order to win at time C. At C, the runner that was in third place catches up to the original first-place runner to finish second. At D, only the original first-place runner remains in the race. **21.** B **23.** $\frac{9.35 - 8.50}{8.50} = 0.10$,

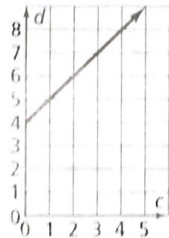
or a 10% increase. Another 10% increase would bring your hourly wage to $1.1(9.35) = 10.285$, or \$10.29. One further 10% increase would bring your rate to $1.1(10.29) = 11.3135$, or \$11.32.

24. $\{-3, -1, 1, 3, 4, 5, 7, 9\}$ **25.** $\{1\}$

26. $\{-1, 1, 3, 4, 5, 7, 9, 12\}$ **27.** $\{1, 4\}$

28.

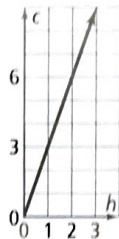
Connie's Age	Donald's Age
0	4
1	5
2	6
3	7



$d = c + 4$

29.

Time (hours)	Number of Cards
0	0
1	3
2	6
3	9



$c = 3h$

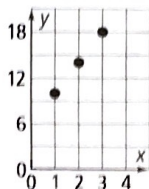
Lesson 4-2

pp. 240-245

Got It? 1a.

Number of Triangles	1	2	3	4
Perimeter	10	14	18	22

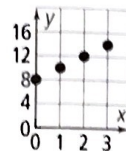
Multiply the number of triangles by 4 and add 6; $y = 4x + 6$.



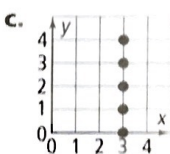
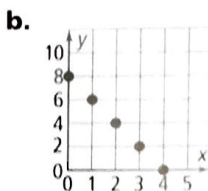
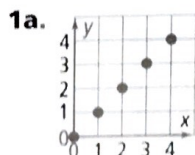
b. Add 4. **c.** The $4x$ part of the equation means that for each triangle the perimeter is increased by 4. If you know the perimeter of n triangles, then the perimeter when 1 more triangle is added will increase by 4.

2a. Yes; the value of y is 8 more than twice the value of x ; $y = 2x + 8$.

b. No; the input value 1 has more than one output value.



Lesson Check



2.

Number of Squares	1	2	3	4	10	30	n
Perimeter	4	6	8	10	22	62	$2n + 2$

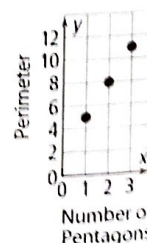
3. independent; number of times you brush your teeth; dependent; amount of toothpaste **4.** a and b are functions because for each input there is a unique output, but c is not a function because there is more than one output value for the input value 3. **5.** No; the graph is not a line.

Exercises

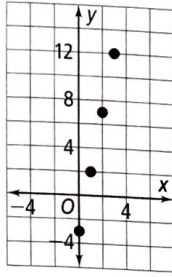
7.

Number of Pentagons	1	2	3
Perimeter	5	8	11

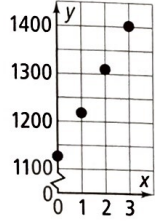
Multiply the number of pentagons by 3 and add 2; $y = 3x + 2$.



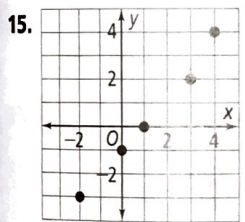
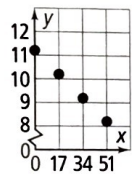
9. Start with -3 and add 5 for each increase of 1 for x ; $y = 5x - 3$.



11. Yes; for each additional hour of climbing, you gain 92 ft of elevation; $y = 92x + 1127$.



13. Yes; for every 17 mi traveled, the amount of gas in your tank goes down by 1 gallon; $y = -\frac{1}{17}x + 11.2$.

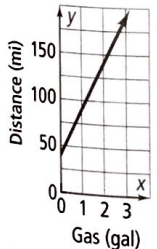


No; all points are not on a straight line.

17.

Gas Used, x	Distance, y
0	40
1	90
2	140
3	190

$y = 50x + 40$



Either distance or gas could be the independent variable, depending on what information is supplied and what is to be calculated.

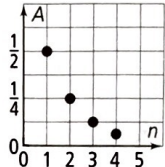
19. graph of a line that goes through $(0, 0)$; $(1, 6)$; $(2, 12)$; the horizontal axis is labeled Distance and the vertical axis is labeled Time.

Lesson 4-3

pp. 246-251

Got It?

1a. nonlinear

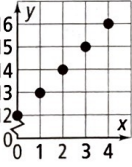


b. No; you can always multiply a number by $\frac{1}{2}$. The denominator of the fraction will get larger and larger, so the value of the fraction will approach 0 but never reach it.
 2. The number of branches is 3 raised to the x th power; $y = 3^x$; 81, 243.

3. $y = x^2$

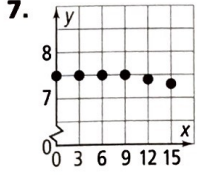
Lesson Check

1. linear

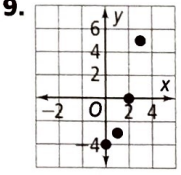


2. $y = 3x - 2$ 3. C 4a. linear function b. nonlinear function 5. Only the first two pairs fit this rule. The rule that fits all the pairs is $y = x^2 + 1$.

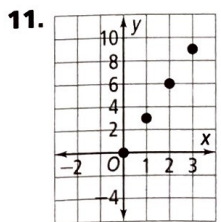
Exercises



nonlinear



nonlinear



linear

13. $y = 4x^2$ 15. $y = 2x^3$ 17. Independent: r , dependent: V ; volume depends on the length of the radius. 19. Let y = number of bags, and $y = 6\pi r^2$; 3 bags; 4 bags; 5 bags. 21. $y = x^2 + \frac{2}{10}$; the value of y is $\frac{2}{10}$ more than the square of x . 23. B 25. [2] $\frac{\$1.69}{15}$ oz is nearly \$ 0593, $\frac{\$1.69}{20}$ oz is nearly \$ 0583, the 20-oz can has the lower cost per ounce. [1] one minor computational error

26. The value of y is 3 more than twice x ; $y = 2x + 3$.



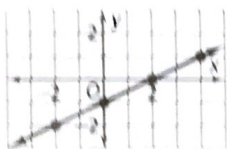
27. -24, -3, 14.5 28. -11, 1, 11 29. -18, 0, -12.5

Lesson 4-4

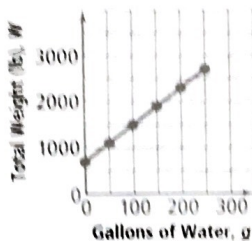
pp. 253-259

Got It?

1.

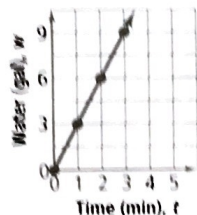


2a.



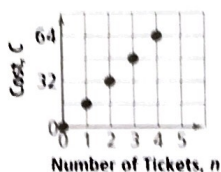
- b. 700 lb, when $g = 0$, the spa is empty, and $W = 700$.

3a.



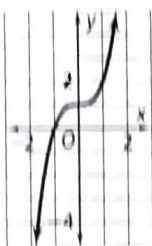
continuous because you can have any amount of water

b.



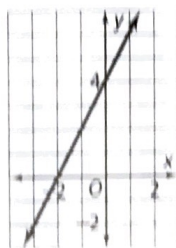
discrete because you can only have a whole number of tickets

4.

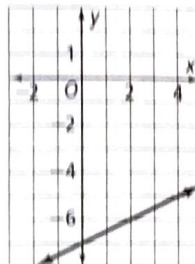


Lesson Check

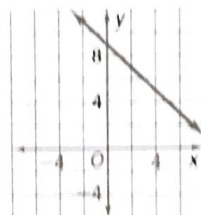
1.



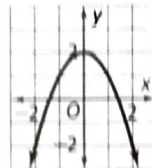
2.



3.



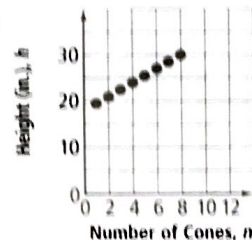
4.



5a.

n	h
1	19.5
2	21
3	22.5
4	24
5	25.5
6	27
7	28.5
8	30

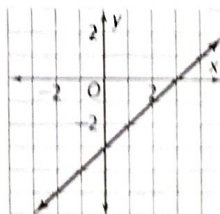
b.



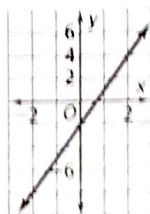
6. discrete 7. continuous 8. The graph should not be discrete; connect the points with a line so the graph is continuous.

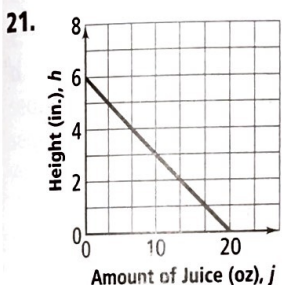
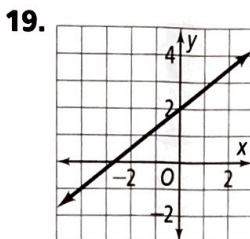
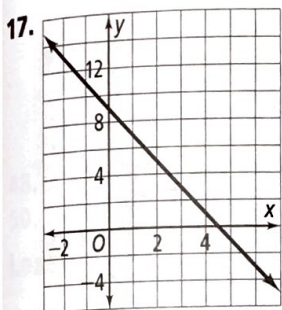
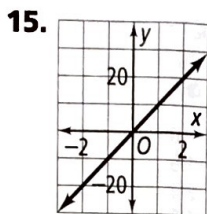
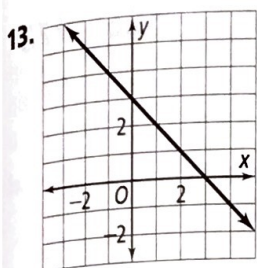
Exercises

9.

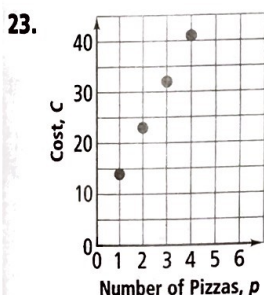


11.

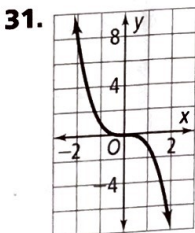
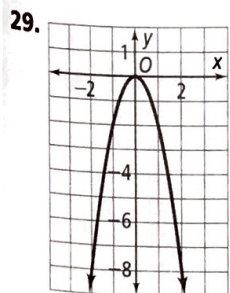
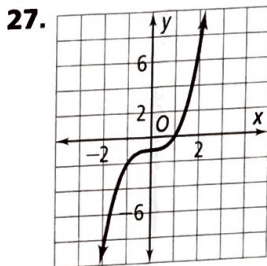
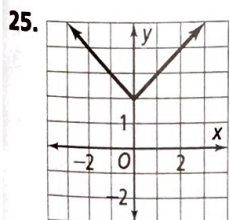




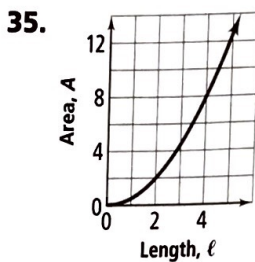
After you drink 20 oz of juice, the height is 0, so the interval $0 \leq j \leq 20$ makes sense. The height goes from $0 \leq h \leq 6$; continuous, because you can have juice in any amount.



The number of pizzas can be any whole number, except zero, so $0 < p$. 1 pizza costs \$14, so $14 \leq C$.



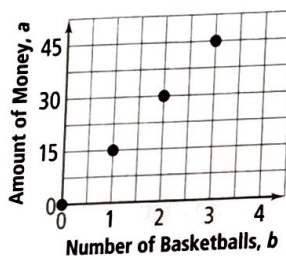
33. No; the graph is still continuous over the appropriate values of d and t .



Continuous; lengths and areas can be any number.

37a.

b	0	1	2	3
a	0	15	30	45



Discrete; you can only have whole numbers of basketballs.
b. 8 39. between 2 and 3 s **41.** Table for $y = 2x$ has x values $-1, 0, 1, 2, 3$ and corresponding y -values $-2, 0, 2, 4, 6$; graph of the line $y = 2x$; graph passes through $(0, 0)$ and $(1, 2)$. Table for $y = 2x^2$ has x values $-1, 0, 1, 2, 3$ and corresponding y -values $-2, 0, 2, 8, 18$; graph of $y = 2x^2$ is U-shaped going through $(-1, -2), (0, 0), (1, 2), (2, 8)$.

Lesson 4-5

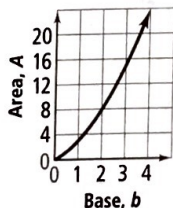
pp. 262-267

Got It? 1. $W = 50,000 + 420m$

2a. $C = 12 + 15n$; \$162 **b.** No; making the stay shorter only halves the daily charge, not the bath charge.

3a. $A = b^2 + 2b$; 288 in.²

b. The graph is not a line.



Lesson Check 1. $C = 3.57p$ **2.** $f = \frac{h}{12}$

3. $y = x + 2$ **4.** $V = (d + 1)^3$ **5.** dependent, a ; independent, b **6.** You can't add holes and minutes. The correct rule is $t = 15n$. **7.** Continuous; side length and area can be any positive real numbers.

Exercises 9. $C = 8 + \frac{1}{2}n$ **11.** $\frac{h}{3} + 2.5 = w$

13. $p = 6.95 + 0.95t$ **15.** $a = 8 - \frac{1}{6}b$

17. $d = -10 - 50t$; -160 ft **19.** $A = \frac{3}{2}h + \frac{5}{2}h^2$; 99 cm² **21.** $A = 3w^2 - 2w$; 8 ft² **23.** Answers may vary. Sample: The rule covers all values, whereas the table only represents some of the values.

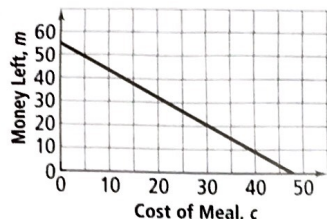
25. $d = -3.5 - 108m$; -435.5 m

27a.

Cost of Meal	\$15	\$21	\$24	\$30
Money Left	\$37.75	\$30.85	\$27.40	\$20.50

b. $m = 55 - 1.15c$

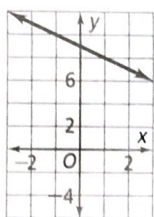
c.



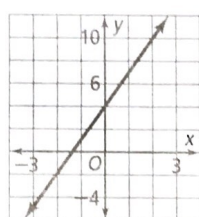
29a. $d = 1.8w$ b. No; the room is not wide enough.

c. $6\frac{2}{3}$ ft **31.** Table has x-values $-4, -3, -2, -1, 0, 1, 2, 3, 4$ and corresponding y-values $7, 6, 5, 4, 3, 2, 1, 0, -1$; the graph is a line that passes through $(0, 3)$ and $(3, 0)$; the function rule is $y = -x + 3$ **33.** B **35.** C

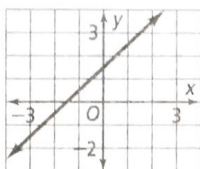
37.



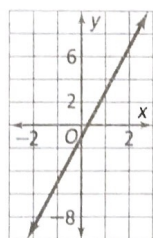
38.



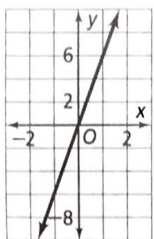
39.



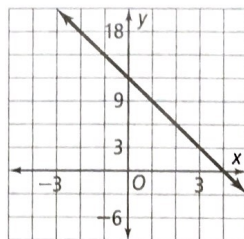
40.



41.



42.

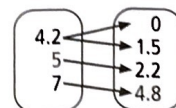


- 43.** 132 oz **44.** 4.5 m **45.** 51 ft **46.** 1.5 min **47.** 9 days
48. 9500 m **49.** -36 **50.** 21 **51.** 111.6 **52.** -9 **53.** 14
54. 1 **55.** $\frac{5}{3}$ **56.** $\frac{21}{16}$

Lesson 4-6

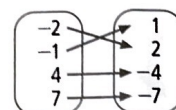
pp. 268-273

Got It? 1a. domain: $\{4.2, 5, 7\}$; range: $\{0, 1.5, 2.2, 4.8\}$



not a function

b. domain: $\{-2, -1, 4, 7\}$; range: $\{1, 2, -4, -7\}$

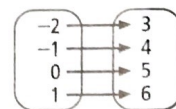


function

2a. function **b.** not a function **3.** 1500 words

4. $\{-8, 0, 8, 16\}$ **5a.** domain: $0 \leq q \leq 7$, range: $0 \leq A(q) \leq 700$ **b.** The least amount of paint you can use is 0 quarts. The greatest amount you can use is 3 quarts.

Lesson Check 1. domain: $\{-2, -1, 0, 1\}$, range: $\{3, 4, 5, 6\}$



function

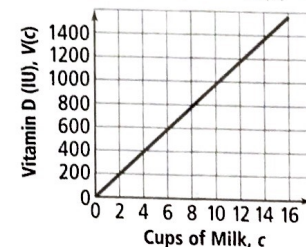
2. yes **3.** 9 **4.** $\{-2, -1, 0, 1, 2\}$ **5.** $f(x) = 2x + 7$

6. Answers may vary. Sample: Both methods can be used to determine whether there is more than one output for any given input. A mapping diagram does not represent a function if any domain value is mapped to more than one range value. A graph does not represent a function if it fails the vertical line test. **7.** No; there exists a vertical line that intersects the graph in more than one point, so the graph does not represent a function.

Exercises 9. domain $\{1, 5, 6, 7\}$, range $\{-8, -7, 4, 5\}$; yes **11.** domain $\{0, 1, 4\}$, range $\{-2, -1, 0, 1, 2\}$; no **13.** not a function **15.** function **17.** \$11

19. $\{-39, -7, 1, 5, 21\}$ **21.** $\{-7, -2, -1, 3\}$

23. $0 \leq c \leq 16, 0 \leq D(c) \leq 1568$



25. function; domain: $\{-4, -1, 0, 3\}$, range: $\{-4\}$

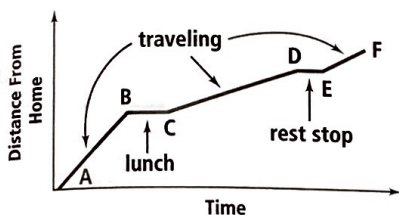
27. 5; if $f(a) = 26$, then $6a - 4 = 26$ and $a = 5$.

29a. c is the independent variable and p is the dependent variable. **b.** Yes; for each value of c , there is a unique value of p . **c.** $p = 5c - 34$ **d.** $0 \leq c \leq 40, 0 \leq p \leq 166$

31. function **33.** not a function **35.** A horizontal line is a function because each value of x has a unique value of y ; a

vertical line is not a function because the x -value has more than one y -value associated with it. **37.** 23 **39.** 6 **41.** 5.25
43. 11 stamps **45.** $E = 5h + 7$ **46.** $a = 4.5s + 10$
47a. time and distance

b. A Trip to the Mountains



- 48.** 9, 12, 15, 18 **49.** 8, 15, 22, 29
50. 0.4, -2.6, -5.6, -8.6

Lesson 4-7

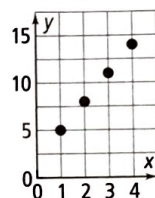
pp. 274-281

- Got It? 1a.** Add 6 to the previous term; 29, 35.
b. Multiply each previous term by $\frac{1}{2}$; 25, 12.5.
c. Multiply each previous term by -2; 32, -64.
d. Add 4 to the previous term; 1, 5. **2a.** not an arithmetic sequence **b.** arithmetic sequence; 2 **c.** arithmetic sequence; -6 **d.** not an arithmetic sequence **3a.** $A(n) = A(n-1) + 6$; $A(9) = 51$ **b.** $A(n) = A(n-1) + 12$; $A(9) = 119$ **c.** $A(n) = A(n-1) + 0.5$; $A(9) = 11.3$
d. $A(n) = A(n-1) - 9$; $A(9) = 25$ **e.** Answers may vary. Sample answer: It depends on which term you are trying to find. If you are trying to find the 2nd or 3rd term, then yes, a recursive formula is useful. If you are trying to find the 100th term, then no, a recursive formula is not useful. **4a.** $A(n) = 100 - (n-1)1.75$; \$73.75 **b.** 57 **5a.** $A(n) = 21 + (n-1)(2)$
b. $A(n) = 2 + (n-1)(7)$ **6a.** $A(n) = A(n-1) + 10$
b. $A(n) = A(n-1) + 3$

- Lesson Check 1.** Add 8 to the previous term; 35, 43.
2. Multiply the previous term by -2; 48, -96. **3.** not an arithmetic sequence **4.** arithmetic sequence; 9
5. $A(n) = A(n-1) - 2$, $A(1) = 9$; $A(n) = 9 - 2(n-1)$
6. -6; the pattern is "add -6 to the previous term."
7. Evaluate $A(n) = 4 + (n-1)8$ for $n = 10$; $A(10) = 4 + (10-1)8 = 76$. **8.** Yes; $A(n) = A(1) + (n-1)d = A(1) + nd - d$ by the Distributive Property.

- Exercises 9.** Add 7 to the previous term; 34, 41.
11. Add 4 to the previous term; 18, 22. **13.** Add -2 to the previous term; 5, 3. **15.** Add 1.1 to the previous term; 5.5, 6.6. **17.** Multiply the previous term by 2; 72, 144. **19.** not an arithmetic sequence **21.** not an arithmetic sequence **23.** yes; 1.3 **25.** not an arithmetic sequence **27.** yes; -0.5 **29.** not an arithmetic sequence
31. $A(n) = A(n-1) - 11$, $A(1) = 99$ **33.** $A(n) = A(n-1) - 3$; $A(1) = 13$ **35.** $A(n) = A(n-1) + 0.1$; $A(1) = 4.6$ **37.** $A(n) = 50 - 3.25(n-1)$; \$11
39. $A(n) = 7.3 + (n-1)(3.4)$ **41.** $A(n) = 0.3 + (n-1)(-0.3)$ **43.** $A(n) = A(n-1) - 5$, $A(1) = 3$

- 45.** $A(n) = A(n-1) + 1$, $A(1) = 4$ **47.** 2, 12, 47
49. 17, 33, 89 **51.** -2, 8, 43 **53.** -3.2, -5.4, -13.1
55. Yes; the common difference is -4; $A(n) = A(n-1) - 4$, $A(1) = -3$; $A(n) = -3 + (n-1)(-4)$.
57. No; there is no common difference. **59.** Yes; the common difference is -0.8; $A(n) = A(n-1) - 0.8$, $A(1) = 0.2$; $A(n) = 0.2 + (n-1)(-0.8)$. **61.** 10, 11.2, 12.4; $A(n) = 8.8 + (n-1)(1.2)$ **63.** -2, -4, -6; $A(n) = (n-1)(-2)$ **65.** Answers may vary. Sample: $A(n) = 15 + 2(n-1)$ **67.** 350, 325, 300, 275, 250, 225; you owe \$225 at the end of six weeks.
69a. 1, 6, 15, 20, 15, 6, 1 **b.** 1, 2, 4, 8, 16; 64
71a. 11, 14 **b.**



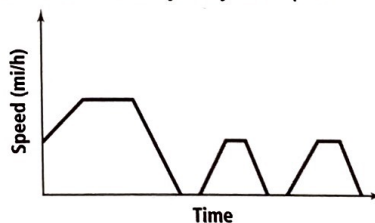
- c.** The points all lie on a line.

- 73.** x ; $4x + 4$ **75a.** The next figure is a drawing of a blue pentagon. **b.** Blue. The colors rotate red, blue, and purple. Every third figure is purple, so the 21st figure is purple. The figure just before that is blue. **c.** 10 sides; figure 23 is in the 8th group of three figures; the number of sides in each group of three figures is $3 + (n-1)$; substitute 8 for n .

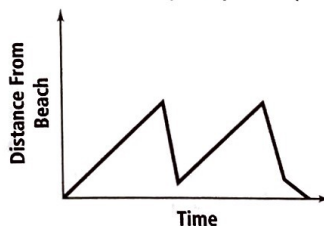
Chapter Review

pp. 283-286

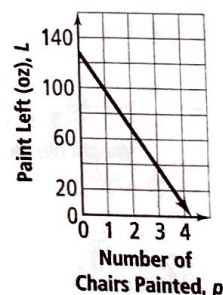
- 1.** independent variable **2.** linear **3.** range
4. Answers may vary. Sample:



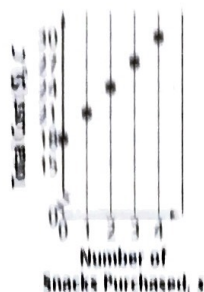
- 5.** Answers may vary. Sample:



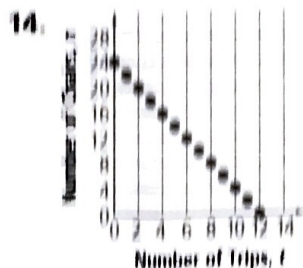
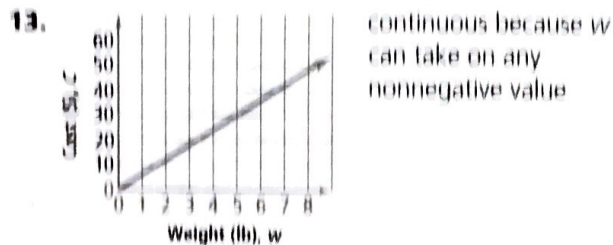
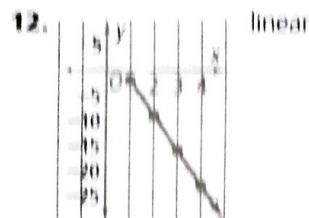
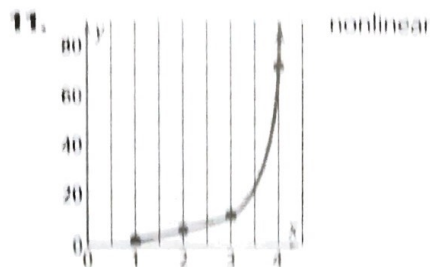
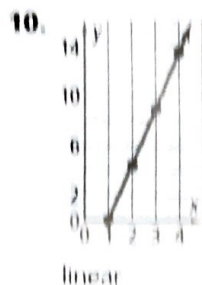
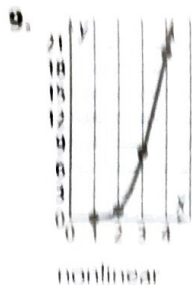
- 6.** Chairs painted, paint left; each time p increases by 1, L decreases by 30; $L = 128 - 30p$.



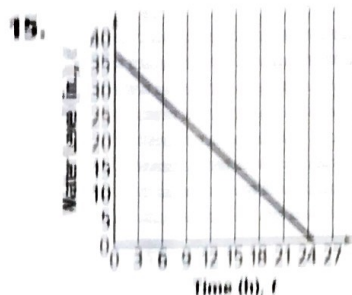
7. Snacks purchased, total cost; for each additional snack, total cost goes up by 3; $c = 18 + 3x$.



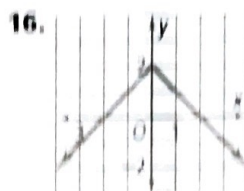
8. independent n , dependent E ; the elevation is 311 more than 15 times the number of flights climbed; $E = 15n + 311$.



discrete because the number of trips must be a whole number



continuous because t can take on any nonnegative value



17. $V = 244 - 0.2s$ 18. $C = 200 + 45h$ 19. not a function 20. function 21. $-4, 6$ 22. 53, 33

23. $\{72, 112, -42, -346\}$ 24. $A(n) = A(n-1) + 5$, $A(1) = 3$; $A(n) = 3 + (n-1)(5)$

25. $A(n) = A(n-1) - 3$, $A(1) = -2$; $A(n) = -2 + (n-1)(-3)$

26. $A(n) = A(n-1) + 2.5$, $A(1) = 4$; $A(n) = 4 + (n-1)(2.5)$ 27. $A(n) = A(n-1) - 7$, $A(1) = 18$; $A(n) = 18 + (n-1)(-7)$

28. $A(n) = 4 + (n-1)(3)$ 29. $A(n) = 13 + (n-1)(11)$

30. $A(n) = 19 + (n-1)(-1)$

31. $A(n) = 5 + (n-1)(-2)$

Chapter 5

Get Ready!

p. 291

1. yes 2. no 3. yes 4. $y = \frac{1}{2}x + 2$ 5. $y = 3x - 2$

6. $y = -x - 2$ 7. boat 8. bean plant

