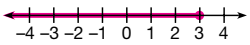
Name _____ Class _____ Date _____

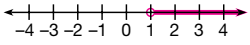
Chapter 12 Answers

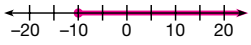
Practice 12-1

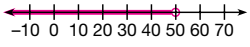
1. Add 3 to both sides, then multiply both sides by 5.
2. Subtract 7 from both sides, then divide both sides by 6.
3. Subtract 2 from both sides, then multiply both sides by 3.
4. 10 **5.** 6 **6.** 16 **7.** 11 **8.** 20 **9.** 60
10. 8 **11.** 240 **12.** 0 **13.** 3 **14.** 154 **15.** 196
16. 6 cookies **17.** 4 dresses **18.** 8 years

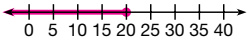
Practice 12-2

1. 

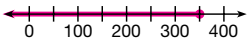
2. 

3. 

4. 

5. no **6.** yes **7.** no **8.** yes
9. no **10.** yes **11.** $x > -2$ **12.** $z \leq 30$
13. Sample answer: It is at least 60 mi away.
14. Sample answer: The price is under $200.
15. $t \leq 20$ 

16. $v > 150$ 

17a. $e \leq 350$ **17b.** 

Practice 12-3

1. $x < 20$ **2.** $m \geq 5$ **3.** $k < -15$ **4.** $w \geq -11$
5. $g \geq -4$ **6.** $b < 18$ **7.** $f < 18$ **8.** $d \geq -6$
9. $q < 51$ **10.** $h > 0$ **11.** $p \geq -35$ **12.** $a < -22$
13. $5 > x - 2; x < 7$ **14.** $20 \leq x + 4; x \geq 16$
15. $n - 5 > 25; n > 30$ **16.** $n + 18 \leq 20; n \leq 2$
17. $x + 18 < 45$; 27 more minutes
18. $x + 72 \leq 120$; 48 more minutes
19. $x < 12$ **20.** $s \geq 30$ **21.** $t < -20$ **22.** $g > 120$
23. $k \geq 100$ **24.** $b < 8$

Practice 12-4

1. -15 **2.** 24 **3.** 1 by 18; 2 by 9; 3 by 6; 3
4. 8:53 A.M. **5.** after 480 seconds **6.** 6°
7. 30 days **8.** 15 rows of 3 students or 9 rows of 5 students

Practice 12-5

1. no **2.** yes **3.** yes **4.** no **5.** yes **6.** yes
7. no **8.** no **9.** 14 **10.** 2 **11.** 17 **12.** 4
13. 19 **14.** 8 **15.** 1 **16.** 5 **17.** 3 **18.** 22
19. 16 **20.** 20 **21.** 3.16 **22.** 6.93 **23.** 5.29
24. 7.42 **25.** 8.49 **26.** 6.08 **27.** 9.27 **28.** 9.90
29. 30.76 **30.** 3.74 **31.** 7.87 **32.** 17.78
33. 2 and 3 **34.** 1 and 2 **35.** 6 and 7 **36.** 3 and 4
37. 8 and 9 **38.** 10 and 11 **39.** 7 and 8 **40.** 11 and 12
41. yes **42.** yes **43.** no **44.** yes **45.** no **46.** yes
47. yes **48.** no **49.** about 252 yards
50. about 30 centimeters

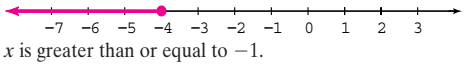
Practice 12-6

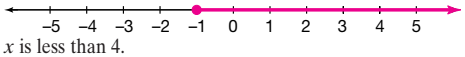
1. $g^2 + h^2 = f^2$ **2.** $x^2 + z^2 = y^2$
3. $u^2 + v^2 = w^2$ **4.** 26 **5.** 12 **6.** 80
7. 8 **8.** 53 m **9.** 56 in. **10.** 21 yd **11.** 41 cm
12. 55 ft **13.** about 473 mi **14.** 14.48 cm
15. 6.9 ft

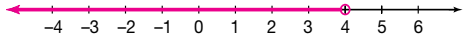
Reteaching 12-1

1a. Add 5. **1b.** Divide by 7. **1c.** $x = 3$
2a. Subtract 8. **2b.** Multiply by 5. **2c.** $t = 20$
3. $y = 2$ **4.** $x = 29$ **5.** $c = 40$
6. $f = 5$ **7.** $k = 1$ **8.** $e = 100$

Reteaching 12-2

1a. x is less than or equal to -4.
1b. closed
1c. 

2a. x is greater than or equal to -1.
2b. closed
2c. 

3a. x is less than 4.
3b. open
3c. 

Reteaching 12-3

1. $x < 7$ **2.** $y > 6$ **3.** $a \geq 4$ **4.** $x \leq -1$
5. $y \geq 9$ **6.** $d \geq 20$ **7.** $c \leq 20$ **8.** $b \geq 16$
9. $w \geq 14$ **10.** $x < -24$

Reteaching 12-4

1. 63 mugs **2.** 112.5 miles
3. 16 ft × 12 ft **4.** 2 m

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