

Chapter 1 Test

1. 9

2. 64

3. 22

4. $4 < |-8|$

5. $|-7| > -12$

6. $-7 < |3|$

7. -17

8. 11

9. -18

10. 24

11. -1

12. -5

13. -1

14. -36

15. -100

16. -3

17. a. -1,115,000 visitors

b. During other years, there were more significant changes in visitors in the negative direction.

1

Chapter 2 Test

1. 0.175

3. -1.3125

5. $-\frac{61}{500}$

7. $-4\frac{9}{20}$

9. $-1\frac{13}{18}$

2. $-0.\bar{1}$

4. 7.2

6. $\frac{33}{100}$

8. $-7\frac{9}{100}$

10. $1\frac{13}{24}$

11. 6.4

13. $-10\frac{2}{5}$

15. 26.488

17. $5\frac{1}{7}$

19. 11 containers

21. greater than; The sum of the three months is 0.46.

12. -9.24

14. $-\frac{11}{25}$

16. $-3.\bar{3}$

18. -0.12

20. a. -45 feet

b. -18 feet

22. Bank Account A; Bank Account A has \$534.54 while Bank Account B only has \$506.95.

Chapter 3 Test

1. $10x - 5$

2. $6.5w - 3y$

3. $15 + 3n$

4. $\frac{1}{14}x + 6$

$$\begin{aligned} 5. (3j + 11) + (8j - 7) &= 3j + 11 + 8j - 7 \\ &= 3j + 8j + 11 - 7 \\ &= 11j + 4 \end{aligned}$$

6. $12p + 6$

$$\begin{aligned} 7. (2r - 13) - (-6r + 4) &= 2r - 13 + 6r - 4 \\ &= 2r + 6r - 13 - 4 \\ &= 8r - 17 \end{aligned}$$

8. $-18.5s + 28.1$

9. $3(n - 8)$

10. $\frac{1}{2}(q + 5)$

11. $x = -\frac{3}{7}$

12. $x = -2$

13. $g = -36$

14. $z = -9.1$

15. $c = -2\frac{1}{3}$

16. $k = -7$

17. $57w + 22m$

18. 0.6

19. $x - 0.3 = 9.124; 9.424$

20. $2\frac{3}{5}$

Chapter 4 Test

1. $k + 19.5 \leq 40$

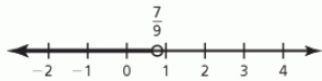
3. yes

5. yes

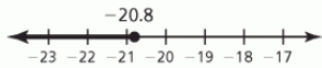
7. $w \leq -1$;



9. $y \leq \frac{7}{9}$;



11. $p \leq -20.8$;



13. $b \leq \frac{5}{7}$;



15. $0.25g \leq 2.50$; $g \leq 10$ gumballs

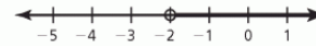
17. $30 - 5c \geq 10$; $c \leq 4$ packs of cards

2. $\frac{1}{4}q > -16$

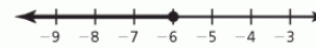
4. no

6. yes

8. $x > -2$;



10. $z \leq -6$;



12. $k \geq 7$;



14. $d > -4$;



16. a. $8g \leq 100$; $g \leq 12.5$

b. Twelve guests because 12 is the largest whole number that satisfies the inequality.

Chapter 5.1-5.3 Quiz

1. $\frac{3}{2}$

2. $\frac{15}{8}$

3. \$0.99 per song

4. 3.5 gallons per hour

5. yes

6. no

7. yes

8. no

9. yes

10. yes

11. no

12. *Sample answer:* $\frac{\$56}{\$42} = \frac{h \text{ hours}}{6 \text{ hours}}$

13. *Sample answer:*
 $\frac{g \text{ games}}{4 \text{ wins}} = \frac{6 \text{ games}}{3 \text{ wins}}$

14. $\frac{1}{3}$ MB per second

15. 6 km per second

16. no; Your rate is 5 minutes per level and your friend's rate is 4 minutes per level.

17. $\frac{150 \text{ minutes}}{3 \text{ classes}} = \frac{x \text{ minutes}}{5 \text{ classes}}$,
250 minutes

5.4 Practice

1. 12

2. 42

3. 35

4. 3

5. 35

6. 3.5

7. 106.68 cm

8. 27.72

9. 84.9

10. \$6.00