Chapter Test

Form A

Select the best answer.

- 1. Solve x 7 = 25.
 - A 18
 - B 32
- 2. Solve 54 = a + 22.
 - A 32
 - B 76
- 3. Which equation represents the relationship "3 more than a number is 7"?
 - A n + 7 = 3
 - B n + 3 = 7
 - C 3n = 7
 - D 3 n = 7
- 4. Solve -8m = 48.
 - A -6
 - B 6
 - C 40
 - D 56
- 5. Solve $\frac{h}{7} = 6$.
 - A -42
- C 13
- B -13
- D 42
- 6. The product of 9 and *n* is –27. What is the value of *n*?
 - A -243
 - B 3
- 7. Solve 2(z + 1) = 16.
 - A 4
- C 7.5
- B 7
- D 9
- 8. Solve $\frac{d}{3} 9 = -12$.
 - A -9
- C 6
- B -3
- D 15

- 9. Solve a + 6 = 3a 8.
 - A -1
 - B 2
 - C 7
 - D 14
- 10. Yoga Fun charges a \$63 starting fee plus \$12 per class. Yoga For All charges no starting fee and \$15 per class. For how many classes will the cost be the same at both places?
 - A 3
 - B 5
 - C 21
 - D 27
- 11. Solve 6(x-1)=6x-1.
 - A no solution
 - B all real numbers
- 12. Solve V = IR for R.

$$AR = \frac{V}{I}$$

B
$$R = \frac{I}{V}$$

13. Solve y + w = x for y.

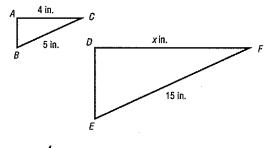
A
$$y = w - x$$

- B y = x w
- 14. Solve |x| = 7.
 - A 7
 - B -7, 7
- 15. Solve |x+8| = 13.
 - A 5
 - B -21
 - C no solution
 - D 5, -21

Chapter Test

Form A continued

- 16. Nina can braid 48 inches of rope in 1 hour. What is her speed in feet per hour?
 - A 0.8 ft/h
- C 576 ft/h
- B 4 ft/h
- D 2880 ft/h
- 17. Solve $\frac{4}{s} = \frac{-2}{9}$.
 - A -4.5
- B -18
- 18. The ratio of boys to girls in Art class is1:2. There are 12 girls in the class. How many boys are there?
 - A 6
- B 24
- 19. Every dimension of a 2 cm by 3 cm rectangle is tripled to form a similar rectangle. Which is equal to the ratio of the perimeters?
 - A the ratio of the corresponding sides
 - B the cube of the ratio of the corresponding sides
- 20. Kris is 2 meters tall and casts a shadow 4 meters long. At the same time, a tree casts a shadow 10 meters long. How tall is the tree?
 - A 5 m
 - B 20 m
- 21. $\triangle ABC \sim \triangle DEF$. Find x.



- $A = \frac{4}{3}$
- C 8
- B 7
- D 12

- 22. 10 is 20% of what number?
 - A 2
- C 50
- B 30
- D 200
- 23. What is 30% of 15?
 - A 0.5
- C 4.5
- B 2
- D 50
- 24. A sales clerk earns a 3% commission on each sale. What is the commission earned on a sale of \$4450?
 - A \$133.50
 - [']B \$148.33
- 25. The check for Kelli's breakfast is \$5.74. Which is the best estimate of a 20% tip?
 - A \$0.50
- C \$1.00
- B \$0.60
- D \$1.20
- 26. Find the percent decrease from 44 to 22.
 - A 50%
 - B 100%
- 27. What is the result when 50 is increased by 10%?
 - A 55
 - B 60
- 28. The owner of a shop bought a scarf at the wholesale price of \$8 and marked it up by 300%. What is the selling price?
 - A \$19
- C \$32
- B \$24
- D \$38
- 29. Cass bought a stereo for \$180. She received a 15% employee discount. How much did she save?
 - A \$12
- C \$165
- B \$27
- D \$153

Chapter Test

Form B Select the best answer.

- 1. Solve x 74 = 146.
 - A -220
- C 72
- B -72
- D 220
- 2. Solve 19.5 = a + 2.4.
 - F -21.9
- H 17.1
- G 17.1
- J 21.9
- 3. Which equation represents the relationship "3 less than a number is -6"?
 - A n 3 = -6
 - C 3 + n = -6
 - B 3 n = -6 D n 6 = 3
- 4. Solve -11m = -132.
 - F -121
- H 12
- G -12
- J 121
- 5. Solve $-\frac{3}{7}h = 6$.

 - A -14 C $2\frac{4}{7}$
 - B $-2\frac{4}{7}$
- 6. The quotient of *n* and –4 is 8. What is the value of n?
 - F -32
- H 2
- J 32
- 7. Solve 6(z+3) 9 = 27.
 - A 0
- C 5.5
- B 3
- D 10.5
- 8. Solve $\frac{d}{14} \frac{1}{2} = \frac{1}{14}$.
 - F -8
- H 6
- G 6
- J 8
- 9. Solve -a + 7 = 2a 8.
- A -3
- C 5
- D 15

- 10. Tia's car needs repairs. Honest Harry will charge \$70 per hour plus \$130 for the part. Lucky Lou will charge \$80 per hour plus \$40 for the part. How long is the job if the two costs are the same?
 - $F 1 \frac{2}{3} h$ H 17 h
 - G9h
- J 20 h
- 11. Solve 7(x-2) = 7x + 14.
 - A no solution
- C 2
- B 0
- D all real numbers
- 12. Solve $A = \frac{1}{2}bh$ for h.
 - $F h = \frac{A}{2b}$
 - G $h = \frac{b}{2A}$
 - $H h = \frac{2A}{h}$
 - $J h = A \frac{1}{2}b$
- 13. Solve xy + 7 = n for y.
 - A v = xn 7
 - B $y = \frac{n-7}{x}$
 - C v = x(n-7)
 - D $y = \frac{1}{x}(n+7)$
- 14. Solve |2x-9| = 3.
 - F 3
- H -3, -6
- G 3, 6 J 3, 6
- 15. Solve |x+3| + 6 = 4.
 - A -1
- C no solution
- B -5 D -1, -5

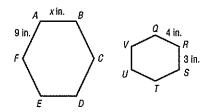
Chapter Test

Form B continued

16. A chef can bake 15 pies in one hour. What is the rate in pies per minute?

F 0.25 pies/min H 1.6 pies/min

- G 0.625 pies/min J 4 pies/min
- 17. Solve $\frac{4}{s-3} = \frac{-2}{5}$.
 - A -11.5
- C 8.5
- B 7
- D 13
- 18. The ratio of girls to boys in French class is 5:4. There are 12 boys in the class. How many girls are there?
 - F 7
- H 15
- G 10
- J 17
- 19. A rectangle has a length of 5 cm and a width of 3 cm. Every dimension is doubled to form a second rectangle. What is the ratio of the perimeters of the two rectangles?
 - A 1:2
- C 1:4
- B 1:3
- D 1:8
- 20. Kris is 1.5 meters tall and casts a shadow 4 meters long. At the same time, a statue casts a shadow 12 meters long. What is the height of the statue?
 - F 4.5 m
- H 24 m
- G-10.6 m
- J 32 m
- 21. ABCDEF ~ RSTUVQ. Find x.



- A 2.25 in.
- C 10 in.
- B 6.75 in.
- D 12 in.

- 22. 16 is 20% of what number?
 - F 0.8
- H 80
- G 12.5
- J 125
- 23. What is 200% of 11.5?
 - A 2.3
- C 23
- B 5.75
- D 57.5
- 24. A salesman earns a 3% commission on the sale of each car. What is the commission earned on a car that sells for \$18.600?
 - F \$558
- H \$5580
- G \$620
- J \$6200
- 25. A restaurant check is \$24.87. Which is the best estimate of a 15% tip?
 - A \$1.25
- C \$3.75
- B \$2.50
- D \$5.00
- Find the percent decrease from 40 to 25.
 - F 37.5%
- H 62.5%
- G 60%
- J 160%
- 27. What is the result when 70 is increased by 80%?
 - A 14
- C 126
- B 56
- D 150
- 28. Juanita sold a scarf for \$24. Her wholesale cost was \$10. What was the percent markup? Round to the nearest tenth, if needed.
 - F 41.7%
- H 140%
- G 58.3%
- J 336%
- 29. Before using his coupon. Ben owed \$87 for a tuxedo rental. After he used the coupon, he owed \$69.60. What percent discount did Ben receive?
 - A 20%
- C 75%
- B 25%
- D 80%

Chapter Test

Form C

Select the best answer.

- 1. Solve x 68 = -121.
 - A -189
- C 53
- B -53
- D 189
- 2. Solve 34.8 = a + 5.8.
 - F 29
- H 39.8
- G 29.8
- J 40.6
- 3. A printer holds 500 sheets of paper. After printing it held 210 sheets. Which equation can be used to find how many sheets were printed?
 - A s 500 = 210 C 210 500 = s

 - B 210 + 500 = s D 500 s = 210
- 4. Solve -13m = -156.
 - F -13
- H 12
- G -12
- J 13
- 5. Solve $-\frac{3}{8}h = 9$.
 - A -24
- C 9.375
- B = 3.375
- D 72
- 6. The quotient of n and -0.5 is 13. What is the value of *n*?
 - F -26
- H 6.5
- G -6.5
- J 26
- 7. Solve 7(z + 2) 3z = 44.
 - A 5.625
- C 10.5
- B 7.5
- D 14.5
- 8. Solve $\frac{3d}{4} \frac{1}{2} = 7$.
 - $F = 5\frac{5}{9}$
- H $8\frac{2}{3}$
- G 8
- 9. Solve -(a-9) = 3a + 17.
 - 8- A
- C 2
- D 6.5

- 10. A printing company will charge \$6 plus \$0.07 per page. Another company will charge \$24 plus \$0.04 per page for the same project. For how many pages will the costs be the same regardless of which company is used?
 - F 330
- H 600
- G 400
- J 1000
- 11. Solve -10(x-1) = 10 10x.
 - A no solution
 - B -1
 - C 0
 - D all real numbers
- 12. Solve $A = \frac{1}{2}(b + c)h$ for c.
 - $F c = \frac{h}{2A} b$
 - G c = 2Ah b
 - $H c = \frac{2A}{b} b$
 - J c = 2h(A b)
- 13. Solve $\frac{x}{y} + 9 = n$ for y.
 - A y = xn 9
 - $\mathsf{B} \ y = \frac{\mathsf{x}}{\mathsf{n} \mathsf{q}}$
 - C v = x(n-9)
 - D $y = \frac{n-9}{y}$
- 14. Solve |x-11| 5 = -5.
- H no solution
- G 1
- J 11
- 15. Solve 2|x+3| + 12 = 8.
 - A-1
- C no solution
- B -2
- D -1. -2

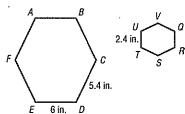
CHAPTER \mathbf{Z}

Chapter Test

Form C continued

- 16. Kevin ran at a rate of 13 km/h. Convert his speed to meters per minute.
 - F ≈0.2 m/min
- H ≈217 m/min
- G ≈3.6 m/min
- J ≈13.000 m/min
- 17. Solve $\frac{1}{x-6} = \frac{3}{12x}$.
 - A -2

- 18. There are 30 singers in a show. The ratio of singers to dancers is 5:6. How many dancers are there?
 - F 16
- H 36
- G 30
- J 55
- 19. The area of a rectangle was 15 cm². Every dimension was multiplied by a scale factor and the new area was 3.75 cm². What was the scale factor?
 - A 0.5
- C 4
- B 2
- D 8
- 20. Jack is 1.75 m tall and casts a shadow 2.25 m long. At the same time, a statue casts a shadow 9 m long. What is the height of the statue?
 - F4m
- H 7 m
- G 5.75 m J 11.6 m
- 21. ABCDEF ~ QRSTUV. Find the length of ST.



- A 2.16 in.
- C 2.67 in.
- B 2.5 in.
- D 2.9 in.

- 22. Nineteen is 40% of what number?
 - F 7.6
- H 475
- G 47.5
- J 760
- 23. What is 200% of 25.5?
 - A 0.51
- C 51
- B^{*} 5.1
- D 510
- 24. A salesman earns a 2.5% commission on the sale of each car. What was the selling price of a car if he earned \$420.60 in commission by selling it?
 - F \$10,094.40
- H \$16,824
- G \$10,515
- J \$17,244.60
- 25. A meal costs \$50.30. Which is the best estimate of the final cost with 4% sales tax and 15% tip?
 - A \$55.50
- C \$61.50
- B \$59.50
- D \$69.00
- 26. Find the percent decrease from 9 to 6.3.
 - F 2.7%
- H 43%
- G 30%
- J 70%
- 27. What is the result when 5 is increased

by
$$\frac{1}{2}$$
 %?

- A 5.025
- C 5.25
- B 5.05
- D 5.5
- 28. Juanita sold a shawl for \$40. Her wholesale cost was \$12.80. What was the percent markup?
 - F 32%
- H 212.5%
- G 68%
- J 312.5%
- 29. Before using his coupon, Jule owed \$86 for a pair of jeans. After he used the coupon, he owed \$60.20. What percent discount did Jule receive?
 - A 25%
- C 70%
- B 30%
- D 75%

Chapter Test

Form A

Solve each equation.

1.
$$x - 18 = 10$$

2.
$$29 = a + 5$$

3. Write an equation to represent the relationship "a number decreased by 12 is equal to 9." Then solve the equation.

Solve each equation.

4.
$$54 = 6m$$

5.
$$\frac{1}{2}t = -8$$

Write an equation to represent the relationship "the product of 7 and a number is 28." Then solve the equation.

Solve each equation.

7.
$$4(z-1)+1=21$$

8.
$$1 = \frac{d}{10} - 12$$

9. A car detailing company charges \$30 plus \$18 per hour. Another company charges \$25 plus \$20 per hour. How long is a job that costs the same no matter which company is used?

Solve each equation.

10.
$$12a - 15 = 8a + 1$$

11.
$$3(x + 1) - 1 = 3x + 2$$

12. Solve
$$D = \frac{M}{V}$$
 for M .

13. Solve
$$x + 6y = 12$$
 for y .

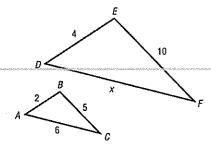
- 14. A train travels 120 miles in one hour. What is its speed in miles per minute?
- 15. What is the solution to |x| = 13?
- 16. What is the solution to |x-5| = 15?

Chapter Test

Form A continued

17. Solve
$$\frac{s}{10} = \frac{1}{2}$$
.

- 18. The ratio of the sale price of a textbook to the original price is 1:3. The original price is \$81. What is the sale price?
- 19. A rectangle has a length of 5 cm and a width of 4 cm. Every dimension is tripled to form a similar rectangle. What is the ratio of the perimeters of the two rectangles?
- 20. Shayla is 5 feet tall and casts a shadow 2 feet long. At the same time, a nearby lamppost casts a shadow 8 feet long. Write and solve a proportion to find the height of the lamppost.
- 21. Find the value of x in the diagram. $\triangle ABC \sim \triangle DEF$



- 22. Six is 10% of what number?
- 23. What is 300% of 12?
- 24. A telemarketer earns a 2% commission on each sale. Find the commission earned on sales of \$1400.
- 25. Estimate a 20% tip on a check for \$34.30.
- 26. Find the percent change from 72 to 18.

 Then tell whether it is a percent increase or decrease.
- 27. Find the result when 80 is decreased by 95%.
- 28. Antonio bought a hat at the wholesale cost of \$7. He marked it up by 100% and sold it. What was his selling price?
- 29. Alicia bought a prom dress for \$120. She had a coupon for 25% off of her purchase. What was the final price of the dress?

CHAPTER C

Chapter Test

Form B

Solve each equation.

1.
$$x - 48 = 110$$

2.
$$8 = a + 5.5$$

 Write an equation to represent the relationship "a number decreased by 11 is equal to –18." Then solve the equation.

Solve each equation.

4.
$$63 = -9m$$

5.
$$-\frac{3}{2}t = -9$$

Write an equation to represent the relationship "the product of a number and negative 5 is 30." Then solve the equation.

Solve each equation.

7.
$$32 = 12 + 4(z - 1)$$

8.
$$\frac{3}{5} = \frac{3}{10}d - 12$$

9. A landscaping company charges \$100 plus \$15 per hour. Another company charges \$75 plus \$17 per hour. How long is a job that costs the same no matter which company is used?

Solve each equation.

10.
$$12a - 11 = 9a - 1$$

11.
$$5(x+2) - 7 = 5x + 3$$

12. Solve
$$D = \frac{M}{V}$$
 for V .

13. Solve
$$-8x + 4y = 28$$
 for *y*.

14. A boat travels 36 miles in one hour. What is its speed in miles per minute?

15. What is the solution to
$$|4x+4| = 12$$
?

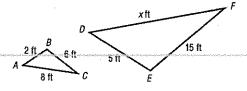
16. What is the solution to
$$|x-7| + 9 = 4$$
?

Chapter Test

Form B continued

17. Solve
$$\frac{s+1}{10} = \frac{3}{-2}$$
.

- 18. The ratio of lemon juice to water in lemonade is 1:5. If 15 cups of water are used to make a pitcher of lemonade, how many cups of lemon juice are needed?
- 19. A rectangle has a length of 5 cm and a width of 4 cm. Every dimension is tripled to form a second rectangle. What is the ratio of the areas of the two rectangles?
- 20. Nathan is 6 feet tall and casts a shadow 2.5 feet long. At the same time, a lamppost casts a shadow 10 feet long. Write and solve a proportion to find the height of the lamppost.
- 21. Find the value of *x* in the diagram. $\triangle ABC \sim \triangle DEF$



- 22. Fifteen is 2% of what number?
- 23. What is 500% of $7\frac{1}{2}$?
- 24. A realtor earns a 5% commission on the sale of each house. Find the commission earned on a house that sells for \$275,000.
- 25. Estimate the tip on a \$38.74 check using a tip rate of 20%.
- 26. Find the percent change from 60 to 78. Then tell whether it is a percent increase or decrease.
- 27. Find the result when 40 is decreased by 90%.
- 28. Antonio sold a hat for \$18. His wholesale cost was \$8. What was the percent markup?
- 29. Alicia bought a prom dress that originally cost \$110. After she used a coupon, she spent \$82.50 on the dress. What percent discount did she receive?

Chapter Test

Form C

Solve each equation.

1.
$$x - 39 = -105$$

2.
$$11.5 = a + 4.5$$

3. Write an equation to represent the relationship "a number decreased by negative 2 is equal to 21." Then solve the equation.

Solve each equation.

4.
$$\frac{m}{4} = -7$$

5.
$$-4.8t = 9.6$$

6. Write an equation to represent the relationship "the product of a number and -2.5 is 60." Then solve the equation.

Solve each equation.

7.
$$9(z-1) + 2z + 16 = 62$$

8.
$$\frac{7}{5} = \frac{d}{10} - \frac{3d}{2}$$

9. A printing company charges \$42 plus \$0.05 per page. Another company just charges \$0.08 per page. How many pages are in an order that costs the same regardless of which company is used?

Solve each equation.

10.
$$10a - 35 = -8a + 1$$

11.
$$5(x+1) = 5(x+5) - 15$$

12. Solve
$$S = \frac{n}{2}(a + b)$$
 for *b*.

13. Solve
$$0.30x + 6y = 300$$
 for x .

14. A boat travels 66 miles in 2 hours. What is its rate in feet per minute?

15. What is the solution to 3|x-12| + 7 = 7?

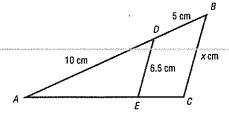
16. What is the solution to 2|x+3| - 4 = -6?

CHAPTER Chapter Test

Form C continued

17. Solve
$$\frac{3}{-s+1} = \frac{6}{s+4}$$

- 18. The ratio of students to faculty members in a high school is 23:5. If there are 80 faculty members, how many students are there?
- 19. A triangle has an area of 40 square centimeters. Its dimensions are multiplied by a scale factor, forming a new triangle with an area of 640 square centimeters. What was the scale factor?
- 20. A tree casts a shadow 8.5 ft long at the same time that a nearby 3-foot-tall pole casts a shadow 3.75 feet long. Write and solve a proportion to find the height of the tree.
- 21. Find the value of x in the diagram. ΔABC ~ ΔADE.



22. Sixteen is 1.6% of what number?

23. What is 500% of 10.5?

24. A realtor earns a 3.25% commission on the sale of each house. How much did a house sell for if the realtor earned \$10,566.40?

25. Estimate the tip on a \$31.77 check using a tip rate of 15%.

26. Find the percent change from 0.5 to 3. Tell whether it is a percent increase or decrease.

27. Find the result when 130 is decreased by 15%.

28. Antonio sold skis for \$220. His wholesale cost was \$165. What was the percent markup?

29. Ali bought a suitcase that originally cost \$145. After she used a coupon, she spent \$116 on the suitcase. What percent discount did she receive?

35. A	36. J
37. B	38. G
39. D	40. H
41. C	42. G

15. D

23, C

25. D

27. A

29. B

Section Quiz: Lessons 2-1 to 2-6

1. A 2. G
3. D 4. H
5. D 6. J
7. B 8. F
9. B 10. H
11. C 12. G
13. C 14. G

Section Quiz: Lessons 2-7 to 2-11

- 1. C 2. F 3. D 4. J 5. B 6. H 7. D 8. H 9. B 10. H 11. D 12. H 13. C
- Chapter 2 Test Form A 1. B 2. A 3. B 4. A 5. D 6. B 7. B 8. A 9. C 10. C 11. A 12. A 13. B 14. B 15. D 16. B 17. B 18. A 19. A 20. A 21. D 22. C

24. A

26. A

28. C

Chapter 2 Test Form B

1. D	2.	Н
3. A	4.	Η
5. A	6.	F
7. B	8.	J
9. C	10.	G
11. A	12.	Η
13. B	14.	G
15. D	16.	F
17. B	18.	Н
19. A	20.	F
21. B	. 22.	Η
23. C	24.	F
25. C	26.	F
27. C	28.	Н
29. A		

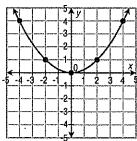
Chapter 2 Test Form C

•	-
1. B	2. F
3. D	4. H
5. A	6. G
7. B	8. J
9. C	10. H
11. D	12. H
13. B	14. J
15. C	16. H
17. A	18. H
19. A	20. H
21. A	22. G
23. C	24. H
25. B	26. G
27. A	28. H
29. B	

Chapter 2 Test Form A

- 1. x = 28 2. a = 243. n - 12 = 9; n = 21 4. m = 95. t = -16 6. 7n = 28; n = 47. z = 6 8. d = 1309. 2.5 h 10. a = 4
- 11. x = all real numbers

28. (-4, 4), (-2, 1), (0, 0), (2, 1), (4, 4);U-shaped



Chapter 1 Test Form C

- 1. 8 m
- 2. "k divided by 10" or "the quotient of k and 10"
- 3, 1,5

4.0

5. -2.4

6. $\frac{7}{15}$

7, -7

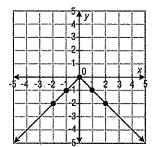
- 8, 8
- 9. -3.125
- 10. 87.5 mi

11.64

- 13. -1.2
- 14. rational, repeating decimal
- 15. whole, integer, rational, terminating decimal
- 16. 4.7 ft
- 17. 4

18. 2

- 19. -1
- 20.
- 21. 16 |-4x|
- 22. 87.9 in³
- 23. 5
- 24. 3.1x 24
- 25. -6x 4.5y
- 26.(0, -4)
- 27. Quadrant III
- 28. (-2, -2), (-1, -1), (0, 0), (1, -1), (2, -2); V-shaped



Chapter 1 Performance Assessment

- 1. (6, 12), (7, 10), (10, 10), (7, 6), (10, 6), (11, 12), (7, 8), (10, 8), (12, 10)
- 2. **Rule 1**: (12, 12), (13, 10), (16, 10), (13, 6), (16, 6), (17, 12), (13, 8), (16, 8), (18, 10)

Rule 2: (3, 12), (4, 10), (7, 10), (4, 6), (7, 6), (8, 12), (4, 8), (7, 8), (9, 10)

Rule 3: (6, 17), (7, 15), (10, 15), (7, 11), (10, 11), (11, 17), (7, 13), (10, 13), (12, 15)

Rule 4: (6, 10), (7, 8), (10, 8), (7, 4), (10, 4), (11, 10), (7, 6), (10, 6), (12, 8)

3. Rule 1: moved 6 units to the right

Rule 2: moved 3 units to the left

Rule 3: moved 5 units up

Rule 4: moved 2 units down

- 4. a. (x, y + 10)
 - b. (x 8, y)
 - c. (x + 4, y 7)

Chapter 1 Cumulative Test

1. A

2. H

3. A

4. H

5. D

6. J

7. B

8. F

9. B

11. C

10. H

13. C

12. G

14. G

15. C

16. J

17. C

18. F

19. D

20. H

21. C

22. J

23. B

24. J

25. A

26. H

27. A

28. G

29. B

30. J

31. C

32. G

33. A

34. J

12.
$$M = DV$$

13.
$$y = 2 - \frac{x}{6}$$

17.
$$s = 5$$

20.
$$\frac{5}{2} = \frac{x}{8}$$
; 20 ft

Chapter 2 Test Form B

2.
$$a = 2.5$$

3.
$$n-11=-18$$
; $n=-7$ 4. $m=-7$

4.
$$m = -7$$

5.
$$t = 6$$

6.
$$-5n = 30$$
; $n = -6$

7.
$$z = 6$$

8.
$$d = 42$$

10.
$$a = 3\frac{1}{3}$$

12.
$$V = \frac{M}{D}$$

13.
$$y = 2x + 7$$

17.
$$s = -16$$

20.
$$\frac{6}{h} = \frac{2.5}{10}$$
; 24 ft

21.
$$x = 20$$

23.
$$37\frac{1}{2}$$

Chapter 2 Test Form C

1.
$$x = -66$$

2.
$$a = 7$$

3.
$$n - (-2) = 21$$
; $n = 19$ 4. $m = -28$

$$m = -28$$

.5.
$$t = -2$$

6.
$$-2.5n = 60$$
; $n = -24$ 7. $z = 5$

7.
$$z = 5$$

8.
$$d = -1$$

10.
$$a = 2$$

12.
$$b = \frac{2S}{n} - a$$
 13. $x = 1000 - 20y$

13.
$$x = 1000 - 20y$$

- 14. 2904 ft/min
- 15. 12
- 16. no solution

17.
$$s = -\frac{2}{3}$$

- 18. 368 students
- 19. 4

20.
$$\frac{3}{3.75} = \frac{c}{8.5}$$
; $x = 6.8$ ft

- 21. 9.75 cm
- 22. 1000
- 23. 52.5
- 24. \$325,120
- 25. \$4.80
- 26. 500% increase
- 27. 110.5
- 28. $33\frac{1}{2}\%$
- 29. 20%

Chapter 2 Performance Assessment

1. 7.25

2. 7.25; 2

3. 1.30

- 4. 1.30: 2: 2.60
- 5. \$2.60 is an underestimate. 15% of \$17.67 is actually \$2.65.
- 6. Since tax is 2.9% a good multiplier would be 5. Her tip would come to $5 \times 0.20 = 1.00 which would be an underestimate of the \$1.20 that an exact 15% tip would be.
- 7. 3 would be the best multiplier because it would give them a 21% tip. They would estimate \$8.70 which would be an overestimate. The exact tip would be \$8.26.

Chapter 2 Cumulative Test

1. C

2. G

3. A

4. F

5. A

6. H

7. B

8. J

9. D

10. G

11. A

12. G

13. B

14. F

15. D

16. J

17. D 19. A

18. G 20. H

21. B	22. H	9. B	10. A		
23. B	24. F	11. B	12. A		
25. B	26. J	13. A	14. B		
27. A	28. J	15. C	16. A		
29. D	30. G	17. C	18. B		
31. D	32. H	19. B	20. A		
33. A	34. J	21. A	22. A		
35. D	36. F	23. A			
37. C	38. F	Chapter 3 Tee	t Form P		
39. C 🕠	40. G	_	Chapter 3 Test Form B		
41. B	42. J	1. B	2. G		
43. D	44. F	3. C	4. F		
45. C	46. H	5. D	6. F		
47. B	48. F	7. C	8. H		
49. A	50. G	9. D	10. G		
51. B	52. H	11. C	12. G		
53. D	54. G	13. A	14. H		
CHAPTER 3		15. D	16. J		
Section Quiz:	Lessons 3-1 to 3-3	17. D	18. J		
1. A	2. J	19. A	20. G		
3. B	4. J	21. B	22. H	** ₀ ,	
5. A	6. F	23. A			
7. C	8. H	Chapter 3 Tes	t Earm C		
9. B	10. F	1. C	2. J		
Section Quiz:	Lessons 3-4 to 3-7	3. C	4. H		
	1 LE350113 3-4 (0 3-7			al malling substantion in construction on construction (1999), which	
3. D	4. F	7. D	8. F		
5. C	6. G	9. B	10. H		
7. C	8. H	11. A	12. G		
9. A	10. G	13. C	14. J		
11. D	12. H	15. C	16. F		
13. A		17. B	18. H		
Chapter 3 Test Form A		19. B	20. G		
1. A	2. B	21. B	22. H		
3. B		23. D			
	4. A				
5. B	6. A				
7. C	8. A			~	