

**Answer Key
Placement/Diagnostic Test**

Page 393

1. C

2. D

3. A

4. B

5. A

6. B

7. D

8. C

9. D

10. A

11. C

12. B

13. A

14. B

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15. B

16. A

17. A

18. C

19. B

20. C

**Answer Key
Placement/Diagnostic Test**

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21. 13

22. 27

23. $\frac{84}{56}$ or $\frac{3}{2}$ or $1\frac{1}{2}$

24. 4

25. 0.0005

26. acute

27. 6.25

28. 30 miles per gallon

29. 0.545

30. 12

31. $1\frac{3}{8}$

32. -8

33. \$170

34. See students' graphs.

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35. 120

36. 57.66 m²

37. 2.355 m

38. associative

39. >

40. \overline{BC}

41. $2^2 \cdot 37$

42. 14.5h = 942.5;
65 hours

43. $\frac{2}{5}$

44. >

45. $\frac{29}{35}$

46. 2.8

47. 200.96 in²

48. $\frac{4}{6}$ or $\frac{2}{3}$

49. 36

50. A(-3, 2),
B(1, -2)

Semester Test Answer Key

Form A

Page 397

1. C

2. B

3. A

4. A

5. C

6. C

7. B

8. D

9. A

10. D

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11. C

12. A

13. A

14. C

15. B

16. A

17. C

18. D

Semester Test Answer Key
Form A

Page 399

19. **B** _____

20. **B** _____

21. **6** _____

22. **commutative
property of addition** _____

23. **25** _____

24. **2150** _____

25. **IV** _____

26. **>** _____

27. **207** _____

28. **125** _____

29. **96** _____

30. **576 in²** _____

31. **120 ft** _____

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32. **$x < -144$** _____

33. **192** _____

34. **$5a^3b^2$** _____

35. **$\frac{k^2}{3}$** _____

36. **3^{12}** _____

37. **\$876.89** _____

38. **$2\frac{3}{10}$** _____

39. **$x > -1.4$** _____

40. **80** _____

41. **$-1\frac{11}{15}$** _____

42. **8.512** _____

43. **4.07** _____

44. **$b > -21.5$** _____

45. **9.3×10^7** _____

46. **-3** _____

47. **65.94 in.** _____

48. **4** _____

49. **$k > -10$** _____

50. **60 mm** _____

Semester Test Answer Key

Form B

Page 401

1. A

2. A

3. C

4. C

5. B

6. B

7. A

8. B

9. A

10. A

Page 402

11. B

12. C

13. C

14. B

15. A

16. D

17. A

18. A

Semester Test Answer Key
Form B

Page 403

19. **A** _____

20. **C** _____

21. **24** _____

22. **distributive property
of addition** _____

23. **15** _____

24. **1525** _____

25. **III** _____

26. **<** _____

27. **100** _____

28. **135** _____

29. **-128** _____

30. **484 in²** _____

31. **120 ft** _____

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32. **$x > -72$** _____

33. **108** _____

34. **$5a^2b^3$** _____

35. **$\frac{k^3}{4}$** _____

36. **3^9** _____

37. **\$981.01** _____

38. **$2\frac{1}{3}$** _____

39. **$y < -4.5$** _____

40. **32** _____

41. **$-1\frac{1}{2}$** _____

42. **22.496** _____

43. **2.4×10^5** _____

44. **$b < 18.5$** _____

45. **8.52** _____

46. **7** _____

47. **43.96 in.** _____

48. **6** _____

49. **$k > -16$** _____

50. **9 cm** _____

Final Test Answer Key

Page 405

1. D

2. C

3. B

4. C

5. C

6. C

7. A

8. D

9. C

10. D

Page 406

11. C

12. D

13. D

14. A

15. D

16. D

17. B

18. D

19. B

20. B

Page 407

21. A

22. C

23. B

24. A

25. B

26. D

27. C

28. C

29. D

30. A

Final Test Answer Key

Page 408

31. commutative property of multiplication

32. five times the sum of z and 4

33. 95

34. <

35. -6

36. 169

37. 48

38. $b > 91$

39. 48 in.

40. $80a^5b^8$

41. 5^{-3}

42. $-36x^3$

43. $\frac{17}{33}$

44. \$1050

45. $-5.3x$

46. 75

47. $\frac{4}{9}$

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48. 85

49. 25

50. 80

51. 48,600,000,000

52. $25 + t + 0.05t = 41.80$

53. -2

54. $x < 4$

55. $y = \frac{3}{2}x - 3$

56. (2, 0)

57. -5

58. $\frac{2}{7}$

59. 105 lbs

60. 25%

61. 20%

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62. 45

63. 24

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

65. 87°

66. 1.1 ft

67. 91°

68. 216 cm^2

69. 864 cm^2

70. 14.13 in^3

71. 15.0 mi

72. 6 cm

73. 76°

74. 64

75. $6x^2 + 5x - 25$