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The *Full Solution Answer Key* provides answers to all *Mathematics 6* exercises. If needed, solutions are given. Each component is designated by color.

- orange – exercises from textbook
- gray – solutions
- black – answers

Unit 1

Lesson 1

Page 2

1. hundredths
2. thousandths
3. ones
4. hundred billions
5. hundredths
6. tenths
7. hundredths
8. trillions
9. 186,000
10. 1,235
11. 0.056
12. 0.1
13. 31,248,757
14. 37,200,000,000,000

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15. a
16. e
17. d
18. c
19. b
20. f

Page 4

21. $\frac{4}{8} \div 4 = \frac{1}{2}$
22. $\frac{2}{6} \div 2 = \frac{1}{3}$
23. $\frac{6}{10} \div 2 = \frac{3}{5}$
24. $\frac{4}{6} \div 2 = \frac{2}{3}$
25. $\frac{6}{15} \div 3 = \frac{2}{5}$
26. $\frac{10}{15} \div 5 = \frac{2}{3}$
27. $\frac{9}{12} \div 3 = \frac{3}{4}$
28. $\frac{3}{18} \div 3 = \frac{1}{6}$
29. $\frac{14}{21} \div 7 = \frac{2}{3}$
30. $\frac{8}{12} \div 4 = \frac{2}{3}$
31. $\frac{5}{1}$
32. $\frac{8}{1}$
33. $\frac{6}{1}$
34. $\frac{10}{1}$
35. $\frac{2}{1}$
36. $\frac{18}{7}$ $7 \times 2 + 4 = 18$
37. $\frac{7}{5}$ $5 \times 1 + 2 = 7$
38. $\frac{20}{17}$ $17 \times 1 + 3 = 20$
39. $\frac{19}{5}$ $5 \times 3 + 4 = 19$
40. $\frac{19}{13}$ $13 \times 1 + 6 = 19$
41. $\frac{21}{11}$ $11 \times 1 + 10 = 21$
42. $\frac{34}{9}$ $9 \times 3 + 7 = 34$
43. $\frac{34}{7}$ $7 \times 4 + 6 = 34$
44. $\frac{5}{3}$ $3 \times 1 + 2 = 5$
45. $\frac{26}{9}$ $9 \times 2 + 8 = 26$
46.
$$\begin{array}{r} 11 \\ 5 \overline{)55} \\ \underline{5} \\ 05 \\ \underline{5} \\ 0 \end{array}$$

$$47. \begin{array}{r} 10 \\ 7 \overline{)70} \\ \underline{7} \\ 00 \end{array}$$

$$48. \begin{array}{r} 12 \\ 6 \overline{)72} \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$49. \begin{array}{r} 11 \\ 4 \overline{)44} \\ \underline{4} \\ 04 \\ \underline{4} \\ 0 \end{array}$$

$$50. \begin{array}{r} 1 \\ 26 \\ \times 31 \\ \hline 26 \\ 780 \\ \hline 806 \end{array}$$

$$51. \begin{array}{r} 12 \\ 237 \\ \times 412 \\ \hline 474 \\ 2370 \\ 94800 \\ \hline 97644 \end{array}$$

$$52. \begin{array}{r} 191 \\ 2004 \\ - 320 \\ \hline 1684 \end{array}$$

$$53. \begin{array}{r} 7121 \\ 4832 \\ - 2678 \\ \hline 2154 \end{array}$$

$$54. \begin{array}{r} 111 \\ 5163 \\ 1105 \\ 3602 \\ + 466 \\ \hline 10336 \end{array}$$

$$55. \begin{array}{r} 11 \\ 499 \\ 763 \\ + 522 \\ \hline 1784 \end{array}$$

$$56. \begin{array}{r} 1 \\ 915 \\ 781 \\ + 180 \\ \hline 1876 \end{array}$$

$$57. \begin{array}{r} 1 \\ 3 \\ 91 \\ + 380 \\ \hline 474 \end{array}$$

58. 18

59. 24

60. 48

61. 121

62. 28

63. 63

64. 56

65. 132

66. 35

67. 12

68. 36

69. 80

70. 8

71. 12

72. 70

73. 12

Lesson 2

Page 5

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

2. $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$

3. $\frac{2}{7} + \frac{1}{7} = \frac{3}{7}$

4. $\frac{4}{5} + \frac{2}{5} = \frac{6}{5} = 1\frac{1}{5}$

5. $\frac{5}{9} - \frac{1}{9} = \frac{4}{9}$

6. $\frac{5}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$

7. $\frac{5}{8} - \frac{3}{8} = \frac{2}{8} = \frac{1}{4}$

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