Chapter: Decimals

Homework 1: Basic Decimal Concepts

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Quick Reference – Decimal Basics

1. Place values after the decimal point:
   tenths   hundredths   thousandths   ten-thousandths . . .

2. $0.6 =$ six-tenths $0.34 =$ thirty-four hundredths

3. To compare decimals: line up the decimal points and compare digit by digit

4. Fractions to decimals (common ones):
   $\frac{1}{2} = 0.5$, $\frac{1}{4} = 0.25$, $\frac{3}{4} = 0.75$, $\frac{1}{5} = 0.2$, $\frac{1}{10} = 0.1$

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1. What is the place value of the digit 7 in 4.75?

2. In the number 0.309, what is the place value of 0?

3. What digit is in the hundredths place in 12.346?

4. In 5.082, the digit 8 is in which place?

5. Write the place value of the underlined digit: 9.$\underline{4}$7

6. What is the place value of 2 in 0.025?

7. In 3.9076, which digit is in the thousandths place?

8. The digit 5 in 6.405 is in the _____ place.

9. Identify the place value of 1 in 0.8104

10. In 18.7654, the 6 is in the _____ place.

11. What place is the digit 4 in 2.3407?

12. Write the place value of the underlined digit: 0.0$\underline{5}$6

13. In 7.12345, the digit in the ten-thousandths place is _____.

14. What is the place value of 9 in 0.009?

15. In 4.5602, which digit is in the hundredths place?

16. $\dfrac{1}{2} =$

17. $\dfrac{3}{10} =$

18. $\dfrac{7}{10} =$

19. $\dfrac{1}{4} =$

20. $\dfrac{3}{4} =$

21. $\dfrac{1}{5} =$

22. $\dfrac{2}{5} =$

23. $\dfrac{4}{5} =$

24. $\dfrac{1}{10} =$

25. $\dfrac{9}{10} =$

26. $\dfrac{1}{20} =$

27. $\dfrac{5}{10} =$

28. $\dfrac{6}{100} =$

29. $\dfrac{25}{100} =$

30. $\dfrac{75}{100} =$

31. $\dfrac{4}{20} =$

32. $\dfrac{8}{100} =$

33. $\dfrac{50}{100} =$

34. $\dfrac{125}{1000} =$

35. $\dfrac{375}{1000} =$

36. Write in numerals: six tenths

37. Write in numerals: forty-seven hundredths

38. Write in numerals: two and three hundredths

39. Write in numerals: nine and sixty-five thousandths

40. Write in words: 0.8

41. Write in words: 0.24

42. Write in words: 5.07

43. Write in words: 3.409

44. Write in numerals: twelve and four tenths

45. Write in words: 0.005

46. Write in numerals: eight hundredths

47. Write in words: 1.75

48. Write in numerals: zero point zero six

49. Write in words: 4.132

50. Write in numerals: nineteen and ninety-nine hundredths

51. Write in words: 0.90

52. Write in numerals: seven tenths

53. Write in words: 2.006

54. Write in numerals: fifty-three thousandths

55. Write in words: 10.01

56. 0.6 _____ 0.60

57. 0.45 _____ 0.405

58. 1.2 _____ 1.02

59. 3.09 _____ 3.1

60. 0.8 _____ 0.80

61. 2.34 _____ 2.340

62. 0.199 _____ 0.2

63. 4.05 _____ 4.50

64. 0.07 _____ 0.070

65. 5.6 _____ 5.59

66. 1.25 _____ 1.250

67. 0.099 _____ 0.100

68. 2.7 _____ 2.70

69. 3.004 _____ 3.040

70. 0.56 _____ 0.560

71. Arrange in ascending order: 0.8, 0.08, 0.88, 0.808

72. Arrange in descending order: 1.2, 1.02, 1.12, 1.002

73. Which is smallest? 0.405, 0.45, 0.4, 0.450

74. Which is largest? 2.39, 2.4, 2.309, 2.40

75. True or False: 0.70 = 0.7

76. Write 0.45 in words.

77. Convert $\dfrac{9}{20}$ to decimal.

78. Compare: 0.065 _____ 0.605

79. What is the hundredths digit in 7.083?

80. Write in numerals: four and twelve hundredths

81. Convert $\dfrac{3}{5}$ to decimal.

82. 1.09 _____ 1.090

83. Write in words: 0.007

84. Which place is the digit 4 in 0.742?

85. Convert $\dfrac{17}{100}$ to decimal.

86. Arrange in ascending order: 0.3, 0.03, 0.33, 0.303

87. Compare: 5.005 _____ 5.050

88. Write in numerals: seventy-five thousandths

89. The digit 9 in 3.209 is in which place?

90. True or False: $0.250 = 0.25$