Unit 4 Study Guide: Operations with Decimals & Long Division

You should be able to:
- identify place value up to the millionths place
- write decimals in both standard and word form
- to compare decimals using <, >, or =
- add/subtract/multiply/divide decimals
- complete multi-digit long division using the standard algorithm

Write each decimal in word form.   *Answers may vary*

1) 2.2   *Two and two tenths*

2) 3.056   *Three and fifty-six thousandths*

3) 23.9087   *Twenty-three and nine thousand eighty-seven ten-thousandths*

Write the following in standard form.

4) thirty-five and seventy-six thousandths   *35.076*

5) two thousand eight hundred ninety six and seventeen hundredths   *2896.17*

6) twenty-nine hundred-thousandths   *0.00029*

Compare the following decimals using <, >, or =

7) 9.2 __>__ 7.65

8) 3.449 __<__ 3.49

9) 655.872 __<__ 655.879

10) 45.321 __>__ 45.32

Order the following decimals from least to greatest.

11)   12.5, 12.4, 12.45, 12.9, 12.3   *12.3, 12.4, 12.45, 12.5, 12.9*

12)   23.2, 24.1, 20.9, 28.1, 32   *20.9, 23.2, 24.1, 28.1, 32*

13)   0.987, 0.98, 0.999, 0.897, 0.789   *0.789, 0.897, 0.98, 0.987, 0.999*

Add or subtract. Show your work.

14) 24.568 + 0.232 = *24.8*

15) 540 − 3.187 = *536.813*

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16) 689.128 + 2.37 = *691.498*

17) 52.83 − 4.026 = *48.804*

18) 0.1234 + 4.239 + 128.74 = *133.1024*

Multiply or divide. Show your work.

19) 18.2 x 0.09 = *1.638*

20) 8.75 ÷ 7 = *1.25*

21) 6.415 (4) = *25.66*

22) 27.59 / 8.9 = *3.1*

23) 104.4 / 29 = *3.6*

Answer using Long Division. Show your work

24) 4085 + 43 = *95*

25) 848 + 53 = *16*

26) 2112 + 96 = *22*

27) 6708 + 78 = *86*

Word Problems. Show your work

28) C.J. went to Red Robin. He got an order of RR's Buzzard Wings for $8.99, a Mint Brownie Shake for $3.19, and a Side Salad for $1.99. How much was his bill? *$14.17*

29) Anthony and Michelle have walked 92.4 km. How many days have they walked if they can cover 13.2 km per day? *7 days*

30) A deli charges $3.65 for a pound of turkey. If Todd wants to purchase 2.7 pounds, how much will it cost? *$9.86*