Name _____   Date _____

1. Divide. Show every other division sentence in two steps. The first two have been done for you.

   a. 1.8 ÷ 6 = 0.3

   b. 1.8 ÷ 60 = (1.8 ÷ 6) ÷ 10 = 0.3 ÷ 10 = 0.03

   c. 2.4 ÷ 8 = __0.3__

   d. 2.4 ÷ 80 = _(2.4÷8)÷10 = 0.3÷10 = 0.03_

   e. 14.6 ÷ 2 = __7.3__

   f. 14.6 ÷ 20 = _(14.6÷2)÷10 = 7.3÷10 = 0.73_

   g. 0.8 ÷ 4 = __0.2__

   h. 80 ÷ 400 = _(80÷4)÷100 = 20÷100 = 0.2_

   i. 0.56 ÷ 7 = __0.08__

   j. 0.56 ÷ 70 = _(0.56÷7)÷10 = 0.08÷10 = 0.008_

   k. 9.45 ÷ 9 = __1.05__

   l. 9.45 ÷ 900 = _(9.45÷9)÷100 = 1.05÷100 = 0.0105_

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Lesson 24: Divide decimal dividends by multiples of 10, reasoning about the placement of the decimal point and making connections to a written method.

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2. Use place value reasoning and the first quotient to compute the second quotient. Use place value to explain how you placed the decimal point.

    a. $65.6 \div 80 = 0.82$

    $65.6 \div 8 = $ ___8.2___

    b. $2.5 \div 50 = 0.05$

    $2.5 \div 5 = $ ___0.5___

    c. $19.2 \div 40 = 0.48$

    $19.2 \div 4 = $ ___4.8___

    d. $39.6 \div 6 = 6.6$

    $39.6 \div 60 = $ ___0.66___

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3. Chris rode his bike along the same route every day for 60 days. He logged that he had gone exactly 127.8 miles.

    a. How many miles did he bike each day? Show your work to explain how you know.

    $$127.8 \div 60 = (127.8 \div 6) \div 10 = 21.3 \div 10 = 2.13$$

    He biked 2.13 miles each day.

    b. How many miles did he bike over the course of two weeks?

    $$
    \begin{array}{r}
    \overset{1}{2.13} \\
    \times \quad 14 \\
    \hline
    852 \\
    +\ 2130 \\
    \hline
    29.82
    \end{array}
    $$

    He biked 29.82 miles in two weeks.

4. 2.1 liters of coffee were equally distributed to 30 cups. How many milliliters of coffee were in each cup?

    $$2.1 \div 30 = (2.1 \div 3) \div 10 = 0.7 \div 10 = 0.07$$

    Each cup has 0.07 liters of coffee.

    $$0.07 \, L = 70 \, mL$$

    Each cup has 70 mL of coffee

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