Name _____   Date _____

1. Complete the sentences with the correct number of units and complete the equation.

   a. 3 groups of __5__ tenths is 1.5   1.5 ÷ 3 = __0.5__

   b. 6 groups of __4__ hundredths is 0.24   0.24 ÷ 6 = __0.04__

   c. 5 groups of __9__ thousandths is 0.045   0.045 ÷ 5 = __0.009__

2. Complete the number sentence. Express the quotient in units and then in standard form.

   a. 9.36 ÷ 3 = __9__ ones ÷ 3 + __36__ hundredths ÷ 3

      = __3__ ones + __12__ hundredths

      = __3.12__

   b. 36.012 ÷ 3 = __36__ ones ÷ 3 + __12__ thousandths ÷ 3

      = __12__ ones + __4__ thousandths

      = __12.004__

   c. 3.55 ÷ 5 = __35__ tenths ÷ 5 + __5__ hundredths ÷ 5

      = __7 tenths + 1 hundredths__

      = __0.71__

Lesson 13:   Divide decimals by single-digit whole numbers involving easily
identifiable multiples using place value understanding and
relate to a written method.
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d. $3.545 \div 5 =$ _35 tenths ÷ 5 + 45 thousandths ÷ 5_

   = _7 tenths + 9 thousandths_

   = _0.709_

3. Find the quotients. Then use words, numbers, or pictures to describe any relationships you notice between each pair of problems and quotients.

a. $21 \div 7 =$ _3_ $2.1 \div 7 =$ _0.3_

   $7 \times 3 = 21$ $7 \times 0.3 = 2.1$

b. $48 \div 8 =$ _6_ $0.048 \div 8 =$ _0.006_

   $8 \times 6 = 48$ $8 \times 0.006 = 0.048$

4. Are the quotients below reasonable? Explain your answer.

a. $0.54 \div 6 = 9$

NO, because $6 \times 9 = 54$, not 0.54

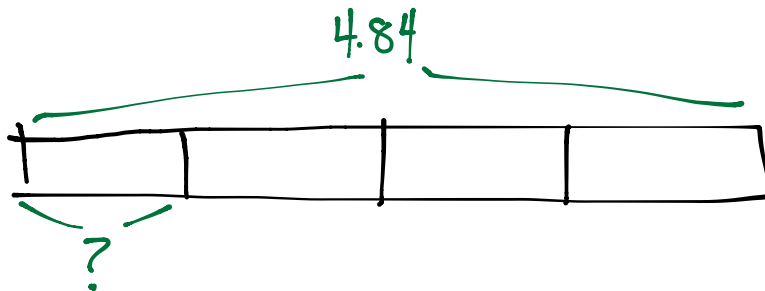b. $5.4 \div 6 = 0.9$

Yes, because $6 \times 0.9 = 5.4$

Lesson 13:   Divide decimals by single-digit whole numbers involving easily
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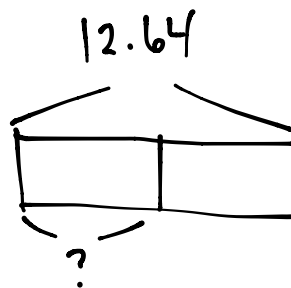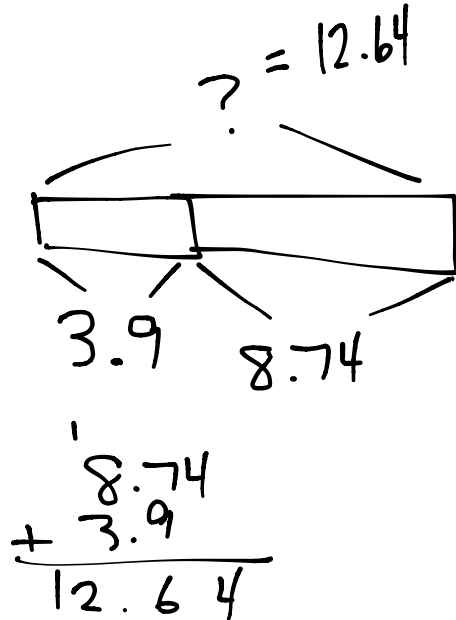
c. $54 \div 6 = 0.09$

No, because $6 \times 0.09 = 0.54$, not 54.

5.   A toy airplane costs $4.84. It costs 4 times as much as a toy car. What is the cost of the toy car?

4.84

$$
\begin{array}{r}
1.21 \\
4\overline{\smash)4.84} \\
\underline{-4} \\
08 \\
\underline{-8} \\
04 \\
\underline{-4} \\
0
\end{array}
$$

?

6.   Julian bought 3.9 liters of cranberry juice and Jay bought 8.74 liters of apple juice. They mixed the two juices together then poured them equally into 2 bottles. How many liters of juice are in each bottle?

? = 12.64

12.64

3.9   8.74

$$
\begin{array}{r}
1 \\
8.74 \\
+\ 3.9 \\
\hline
12.64
\end{array}
$$

?

6.32 L

$$
\begin{array}{r}
6.32 \\
2\overline{\smash)12.64} \\
\underline{-12} \\
0\ 6 \\
\underline{-\ 6} \\
04 \\
\underline{-4} \\
0
\end{array}
$$

COMMON CORE

Lesson 13:   Divide decimals by single-digit whole numbers involving easily identifiable multiples using place value understanding and relate to a written method.
Date: 6/28/13

engage^ny   **1.F.16**