Name: __Key_____   Date: _____

Module 2 Study Guide

1. Multiply to find the product: (PS2.LT4)

✓ a.   38.6 x 55 = __2,123.0__

$$\begin{array}{r} {}^{4}\ {}^{3}\\ 386 \text{ tenths}\\ \times\ \ \ 55\\ \hline 1\,1930\\ 1\,9\,3\,0\,0\\ \hline 2\,1\,2\ 30 \text{ tenths} \div 10\\ \searrow 2123.0 \end{array}$$

b. 9.0$\overset{\cdot}{7}$ x 41 = __371.87__

$$\begin{array}{r} 9\overset{\cdot}{0}7 \text{ hundredths}\\ \times\ \ \ 41\\ \hline .907\\ +\,3\,6\,2\,8\,0\\ \hline 3\,7,1\,8\,7 \text{ hundredths} \div 100\\ \searrow 371.87 \end{array}$$

2. Divide: Then check, with multiplication. (PS2.LT5)

✓ a.   88.92 ÷ 52 = __1.71__

E/w

$$50 \div 50 = 1$$
hundreds   hundreds

$$\begin{array}{cc} 5\overset{\cdot}{2} & 52\\ \times\ 6 & \times\ 7\\ \hline 312 & 364 \end{array}$$

$$\begin{array}{r} {}^{5}1.71\\ 52\overline{\smash{)}88.92}\\ 52\,\downarrow\\ \hline 369\\ -364\,\downarrow\\ \hline 52\\ -52\\ \hline 0 \end{array}$$

C

$$\begin{array}{r} {}^{3}171 \text{ hundredths}\\ \times\ \ \ 52\\ \hline 342\\ 8550\\ \hline 8892 \text{ hundredths}\\ \searrow 88.92 \end{array}$$

✓ b.   64.8 ÷ 18 = __3.6__

$$60 \div 20 = 3$$

$$\begin{array}{c} {}^{2}\overset{\cdot}{1}8\\ \times\ 3\\ \hline 54 \end{array}$$

$$100 \div 20 = 5$$

$$\begin{array}{cc} {}^{4}18 & {}^{4}18\ ✓\\ \times\ 5 & \times\ 6\\ \hline 90 & 108 \end{array}$$

$$\begin{array}{r} 3.6\\ 18\overline{\smash{)}64.8}\\ 54\,\downarrow\\ \hline 108\\ 108\\ \hline 0 \end{array}$$

$$\begin{array}{r} {}^{4}36 \text{ tenths}\\ \times 18\\ \hline 288\\ 360\\ \hline 648 \text{ tenths} \div 10\\ 64.8 \end{array}$$

Name: _____   Date: _____

3. A rectangular park has an area of 4,235 square meters. If the width of the rectangle is 35 meters, find the length. **Area = length x width** (PS2.LT5)
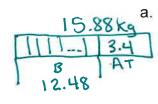
$4235 \div 35$

$$\begin{array}{r} 35 \\ \times\ 2 \\ \hline 70 \end{array}$$

$$35\overline{)4235}$$
$$\begin{array}{r} 121 \\ 35\overline{)4235} \\ 35 \\ \hline 73 \\ -70 \\ \hline 35 \\ -35 \\ \hline 0 \end{array}$$
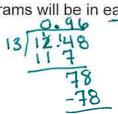
The length of the rectangle is 121 meters

4. A baker uses 3.3 pounds of flour daily. How many pounds of flour does the baker use in 12 days? (1 lb = 16 oz) (PS2.LT4)   The baker uses __39.6__ lbs in 12 days

3.3	3.3		3.3
1	2 · · · · 12		

3.3×12

33 tenths
$$\begin{array}{r} \times\ 12 \\ \hline 66 \\ 330 \\ \hline 396 \end{array}$$
396 tenths ÷ 10 = 39.6

5. Kasey has 15.88 kg of flour, and she uses 3.4 kg to make apple turnovers. The remaining flour is exactly enough to make 13 batches of biscuits.

a. How much flour, in kilograms will be in each batch of biscuit?

15.88kg

			3.4
B			AT
12.48			

$120 \div 10 = 12$
$$\begin{array}{ccc} 12 \\ 13 & 13 & 13 \\ 9 & \times 7 & \times 6 \\ \hline 117 & 91 & 78 \end{array}$$

$$\begin{array}{r} 0.96 \\ 13\overline{)12.48} \\ 11\ 7 \\ \hline 78 \\ -78 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 15.88 \\ -\ 3.40 \\ \hline 12.48 \end{array}$$

0.96 Kg per batch

b. How much flour, in grams, will be in each batch of biscuit? (1 kg = 1,000 g)
(PS5.LT3)

0.96 Kg = __960__ g

E 0.96 × (1 kg)

C 0.96 × (1000 g)

A 960 g

0.960

960

Level 4

1. Frances used her hand to measure the length of the wall. The wall was 74.3 hands long and her hand was 3.29 inches long. How many inches long was the wall? (PS2.LT1)

74.3×3.29

$$743 \text{ tenths} \times$$
$$\times\ 329 \text{ hundredths}$$
$$= \text{thousandths}$$
$$.6687$$
$$14860$$
$$+\ 222900$$
$$244447 \text{ thousandths} \div 1000$$
$$\Rightarrow 244.447 \text{ in. long.}$$

2. Mrs. Shrode is traveling to Chicago. She travels 435.064 miles in 53.5 minutes. How many miles per minute is Mrs. Shrode traveling? Explain your answer using numbers, pictures and/or words. (PS2.LT2)

$$\frac{435.064}{53.5} \times \frac{10}{10} = \frac{4350.64}{535}$$

$4000 \div 500 = 8$ } $1500 \div 500 = 3$

$$\begin{array}{cccc} 535 & 535 & 535 & 535 \\ \times\ 8 & \times\ 3 & \times\ 4 & \times\ 2 \\ \hline 4280 & 1605 & 2140 & 1070 \end{array}$$

$$535\overline{)4350.6400} \quad 8.1320$$
$$4280 \downarrow$$
$$6786$$
$$535 \downarrow$$
$$17944$$
$$1605 \downarrow$$
$$1090$$
$$1070 \text{ v}$$
$$200$$

$\boxed{8.132 \text{ miles per minute}}$

3. Mr. Olson is making fruit punch for his son's sports team. The recipe calls for 6.4 gallons of ginger ale When he arrives at the store, he realizes that the ginger ale is only sold in 2-liter bottles. He researches and learns that 1 gallon is equal to 3.79 liters. How many 2-liter jugs of ginger ale should Mr. Zendegas buy? (PS5.LT3)

6.4 gal = ____ liters

E: 6.4×1 gal

C: 6.4×3.79 L

24.256 L

$$379 \text{ hundredths} \quad \frac{1}{100} \times \frac{1}{10}$$
$$\times\ 64 \text{ tenths} \quad = \frac{1}{1000}$$
$$1516$$
$$22740$$
$$24256 \text{ thousandths}$$
$$\Rightarrow 24.256$$

$$2\overline{)24.256} \quad 12.128$$
$$-2$$
$$04$$
$$4\ \text{v}$$
$$02$$
$$-2$$
$$05$$
$$4$$
$$16$$
$$-16$$
$$0$$

Mr Zendegas needs to buy $\boxed{13 - 2\text{-liter}}$ bottles of gingerale