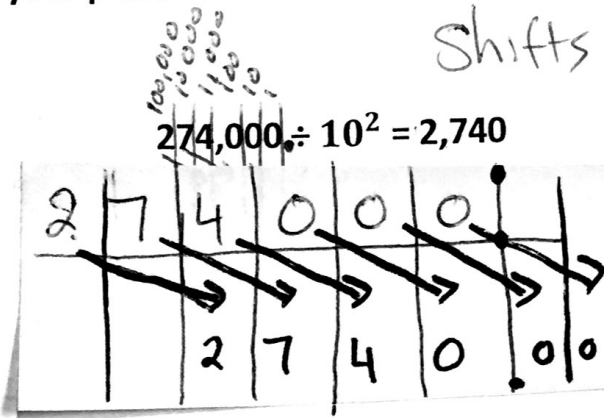
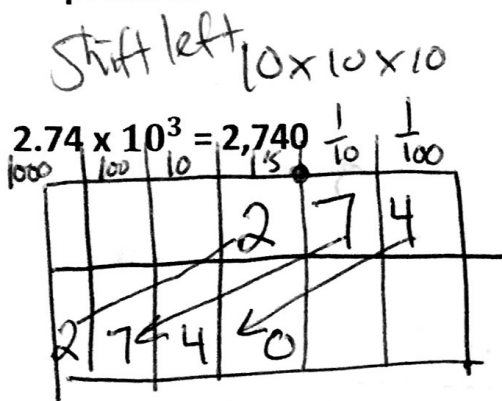


Name \_\_\_\_\_

## Practice Sheet for End of Module Test – Module 1

1) The following two equations involve different quantities and use different operations yet produce the same result. Use your place value mat and words to explain why this is true.



Shifts 2 place values to the right

$\div 10$  and  $\div 10$

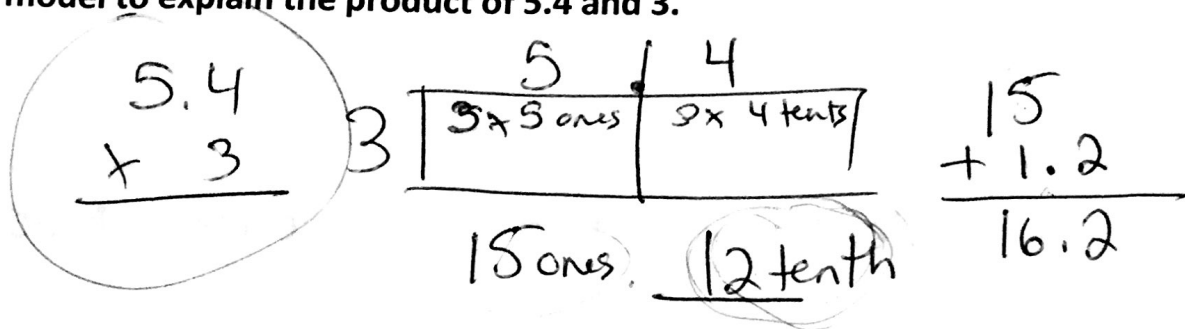
Use  $>$ ,  $<$ , or  $=$  to compare the following. Use a place value chart to help, if necessary.

.09

.10

a. 16.3	$<$	16.4
b. 0.83	$=$	$\frac{83}{100}$
c. $\frac{205}{1000}$	$=$	0.205
d. 95.580	$=$	95.58
e. 9.1	$>$	9.099
f. 8.3	$=$	83 tenths
g. 5.8	$>$	Fifty-eight hundredths 0.58

2) A) Use an area model to explain the product of 5.4 and 3.



B) Write the product from Part A in standard form, word form, and expanded form.

Standard:

16.2

Word form:

sixteen and two tenths

Expanded form:

$1 \times 10 + 6 \times 1 + 2 \times \frac{1}{10}$

Arrange the numbers in increasing order.

a. 3.049 3.059 3.05 3.04

3.04, 3.049, 3.05, 3.059

b. 182.205 ~~182.05~~ ~~182.105~~ ~~182.025~~

182.025, 182.05, 182.105, 182.205

Arrange the numbers in decreasing order.

a. ~~7.608~~ ~~7.68~~ ~~7.6~~ ~~7.068~~

7.68, 7.608, 7.6, 7.068

Compare using  $>$ ,  $<$ , or  $=$ .

a.  $0.4$   $>$   $0.127$

b. 2 thousandths + 4 hundredths  $>$   $0.036$

$.042$

c. 2 tens 3 tenths 1 thousandth  $<$   $20.31$

$20.301$

d. 24 tenths  $<$   $2.5$

$2.4$

e.  $4 \times 10^3 + 2 \times 100 + 3 \times \frac{1}{10}$   $=$   $4 \times 1000 + 2 \times 10^2 + 3 \times \frac{1}{10}$

$4200.3$

$4000 + 200 + .3$

$4000 + 200 + .3$

$4200.3$

f.  $3 \times \frac{1}{10} + 4 \times \frac{1}{1000}$   $<$   $0.340$

$.3 + .004$

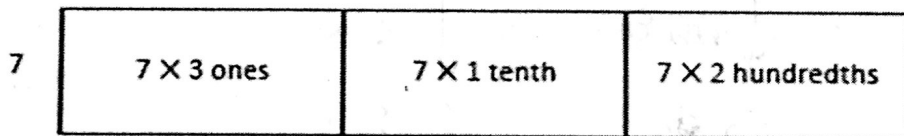
$.304$

$10$  or  $.9999$

Draw a model similar to the one pictured below for Parts (b), (c), and (d). Find the sum of the partial products to evaluate each expression.

a.  $7 \times 3.12$

3 ones + 1 tenth + 2 hundredths



$21 + .7 + 0.14 = 21.84$

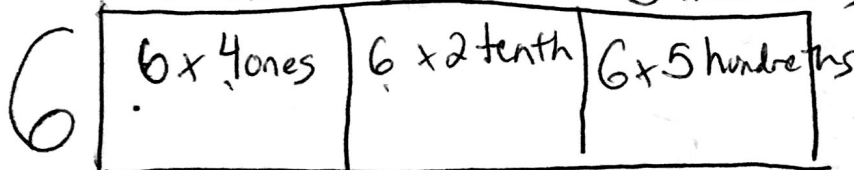
$21.00$

$.7$

$+ .14$

b.  $6 \times 4.25$

4 ones 2 tenths 5 hundredths



$24$  ones     $12$  tenths     $30$  hundredths

$24 + 1.2 + .30$

$24$

$1.2$

$.30$

$25.50$

3) For Mr. Provost's secret candy recipe, he mixed 11.047 grams of white sugar, 22.887 grams of flour, and 6.89 grams of brown sugar. This made 6 pieces of candy.

11.047 sugar	22.887 flour	6.89 B'sugar
-----------------	-----------------	-----------------

A. About how many grams of ingredients were used in all? 6 pieces of candy

↑ 12  
|  
+ 11.5  
|  
↓ 11

Sugar

↑ 23  
|  
+ 22.5  
|  
↓ 22

Flour

↑ 7  
|  
+ 6.5  
|  
↓ 6

B'sugar

~~11.047~~  
~~22.887~~  
~~+ 6.89~~  
-----

11g  
23g  
+ 7g  
-----  
≈ 41g

B. Estimate the amount of each ingredient by rounding them to the nearest tenth of a gram. Show all of your thinking.

Sugar

↑ 11.1  
|  
+ 11.05  
|  
↓ 11.0

11.047

Flour

↑ 22.9  
|  
+ 22.85  
|  
↓ 22.8

22.887

B'sugar

↑ 6.9  
|  
+ 6.85  
|  
↓ 6.8

6.89

Sugar = 11.0 g  
Flour = 22.9 g  
Brown sugar = 6.9 g

C. Now total the exact number of grams of ingredients used by Mr. Provost.

11.24  
11.047  
22.887  
+ 6.89  
-----

Total ingredients 40.824g

~~11.047~~

D. What is the difference between your estimate and the exact amount?

Estimate

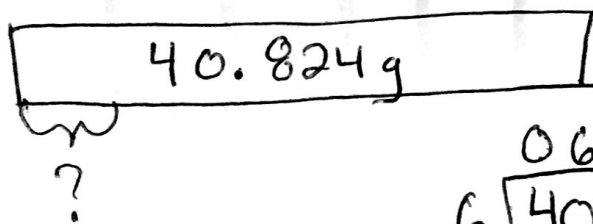
$$\begin{array}{r} 11.0 \\ + 22.9 \\ + 6.9 \\ \hline \approx 40.8 \end{array}$$

$$\begin{array}{r} 40.824 \text{ g} \\ - 40.800 \\ \hline 0.024 \text{ g} \end{array}$$

The difference is

E. How many grams of ingredients are used for one piece of candy?

DMSBC

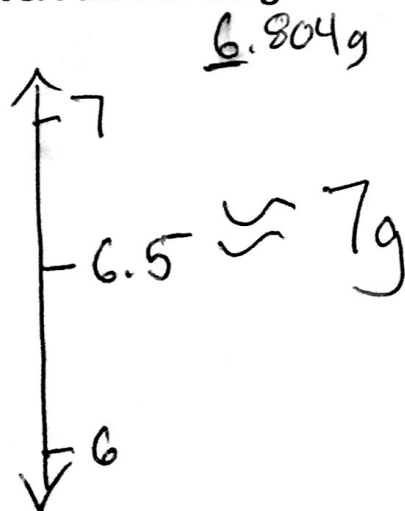


It takes 6.804 g to make 1 piece of candy.

$$\begin{array}{r} 06.804 \\ 6 \overline{)40.824} \\ \underline{-0} \downarrow \\ 40 \\ \underline{-36} \downarrow \\ 48 \\ \underline{-48} \downarrow \\ 02 \\ \underline{-0} \downarrow \\ 24 - 24 = 0 \end{array}$$

- 6, 12, 18, 24, 30, 36, 42, 48

F. Take the above weight of one piece of candy and round it to the nearest gram. Then, show how to convert that to kilograms. Show your work!



$$1 \text{ kg} = 1000 \text{ g}$$

$$7 \div 10^3 =$$

$$\begin{array}{l} \underline{\underline{.007}} = .007 \text{ kg} \\ = .007 \text{ kg} \end{array}$$