## **End of Module 2 Assessment Study Guide**

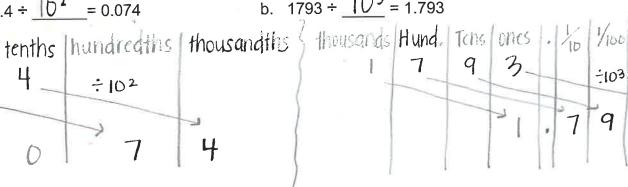
1. Write the missing divisor using a power of 10. Then show your reasoning using a place value chart.

a. 
$$7.4 \div 10^2 = 0.074$$

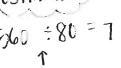
1. 
$$7.4 \div 10^{2} = 0.074$$

1. tenths | hundredths | thousand  $\div 10^{2}$ 

b. 
$$1793 \div \frac{10^3}{10^3} = 1.793$$



2. Estimate the quotient. Show all lines of your work. Explain your thinking in writing below.



80 is close to 82.

The nearest multiple of 8 tons is 56 tens = 56 tens = 8 tens = 7

3. Create and solve another division problem that has the SAME quotient and remainder as the two problems below. Explain in writing your strategy for creating the new problem.

create and solve a division problem with a quotient of 4 and a remainder of 14:

(must be greater than the remainder)

Explain your strategy: To check division, I can multiply the divisor and the quotient, then add the remainder So I multiplied the quotient of by a divisor greater than the remainder. Then added 4. Jackson says that 33 ÷ 6 equals 28 ÷ 5 because both have quotients of 5 R3. Show his mistake using decimal division.

| 1 11 | is illistan <del>c</del> |
|------|--------------------------|
|      | 5.5                      |
| (0   | 33.0                     |
| ď    | 30 1                     |
| -    | 70                       |
|      | -30                      |
|      | 30                       |
|      | ^                        |
|      | ()                       |

Date

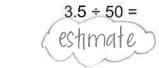
5. A rectangular playground has an area of 2987 square meters. If the width is 29 meters, what is the length?

Draw and label the playground. Solve. Check. Write your answer as a sentence.

width = 
$$\frac{103}{29m}$$
 |  $\frac{103}{2987}$  |  $\frac{103}{2987}$ 

- The length of the playground is 103 meters.
  - 6. Show an estimate, solve, and check. Your answer WILL have a remainder.

7. Show an estimate, solve, and check. Your quotient will be a decimal number.



35 tents = 5 tens = 71?

8. Solve. For (b) and (c), explain your thinking.

a. 
$$4.2 \div 6 = ...7$$
  $4.2 \div 6 = ...7$ 

a.  $4.2 \div 6 = \underline{\phantom{0}} 7$ b.  $42 \div 6 = \underline{\phantom{0}} 7$   $42 \div 6 = \underline{\phantom{0}} 7$ 

c. 
$$4.2 \div 60 = .07$$
  $\longrightarrow$  60 is ten times greater than 6.  
We are dividing by 60, so  $.7 \div 10 = .07$ 

9. Amelia's Best Bakery uses 6.5 pounds of flour daily. How many ounces of flour will Amelia use in 2 weeks? (1 lb = 16 ounces). Show your work step-by-step. Label all parts of your work. Write your answer in a sentence.

Step 1: 1 multiplied 6.5 lbs by 16 to convert pounds to ounces.

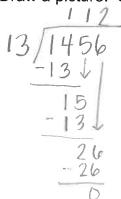
10 40 = 10 = 104.0

step 2: I multiplied the daily ounces by 14 to find how many owners were used in 2 weeks.

1,486 ounces of flour are used in two weeks

At Amelia's Best Bakery, a recipe of bread calls for 13 ounces of flour. If Amelia uses all of the flour (from the answer to #9) to make loaves of bread, how many full loaves of bread can she make in 2 weeks?

Draw a picture. Solve. Label your work. Write your answer in a sentence.



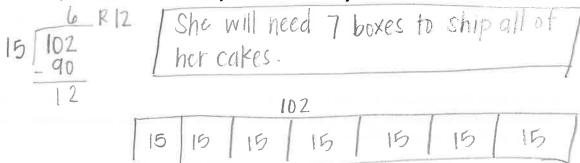
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She can make 112 loaves of bread in two weeks

11. Lindsey's Cake-o-rama Shop is famous for making cakes. Lindsey sends 102 cakes to one grocery store. She can pack up to 15 cakes in one box for shipping. How many boxes will Lindsey need to ship all 102 cakes?

Draw a picture. Solve. Label your work. Write your answer in a sentence.

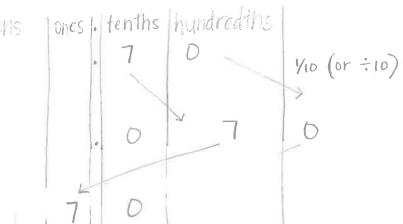


12. Andrew's Donuts Deluxe shop pays \$.70 per pound of sugar and \$1.50 per pound of butter. Write an expression that shows how much Andrew will spend if he buys 8 pounds of sugar and 9 pounds of sugar. Then solve the expression.

$$(8 \times .70) + (9 \times 1.50)$$
  
 $5.60 + 13.50 = [$19.10]$ 

13. Andrew pays \$.70 for 1 pound of sugar for his donut shop. One pound of colored sprinkles costs 1/10 as much as one pound of sugar. Andrew needs 100 pounds of sprinkles. How much will Andrew spend on sprinkles? Show your work on a place value chart. Write your answer in a sentence.

18/19



\$7.00 for 100 lbs of sprinkles.

Explain with words what happened to the placement of the decimal as you completed your work.