Topic D Quiz Prep (Lessons 20 – 25)

In this topic we learned that estimating is a very important first step in decimal division. It helps us to determine a reasonable quotient using mental math. We also learned several different methods for dividing show below.

Item 1: <u>**Estimate**</u> **each quotient.**

5.7 ÷ 0.02 ➡	600 hundredths ÷ 2 hundredths ➡	**600 ÷ 2 = 300**	$6 \div \dfrac{2}{100} = \dfrac{600}{2} = 300$
57 ÷ 200 ➡	60 ÷ 2 ÷ 100 ➡	**30 ÷ 100 = 0.3**	60 ÷ 2 ÷ 10 ÷ 10 ➡ **30 ÷ 10 = 3 ÷ 10 = 0.3**
0.57 ÷ 0.2 ➡	60 hundredths ÷ 20 hundredths ➡	**60 ÷ 20 = 3**	$\dfrac{60}{100} \div \dfrac{20}{100} = \dfrac{60}{20} = 3$
0.57 ÷ 20 ➡	60 hundredths ÷ 10 ÷ 2 ➡	6 hundredths ÷ 2 = 0.03	0.60 ÷ 10 = 0.06 ÷ 2 = 0.03

Item 2: Divide

8.5 ÷ 5 = ___	**36.6 ÷ 300 = ___**	**7.2 ÷ 80 = ___**
$$\begin{array}{r} 1.7 \\ 5\overline{\smash)8.5} \\ -\underline{5} \\ 3\,5 \\ -\underline{3\,5} \\ 0 \end{array}$$	36.6 ÷ 100 = 0.366 0.366 ÷ 3 = **0.122**	7.2 ÷ 10 = 0.72 0.72 ÷ 8 = **0.09**

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Item 3: Word Problem

Gabby has 9.2 pounds of clay. She places the clay equally into 6 containers. How many pounds of clay are in each container?

Choose the expression that can be used to solve the problem.

A. 9.2 + 6
B. 9.2 – 6
C. 9.2 x 6
D. 9.2 ÷ 6

Item 4: Divide

$56 \div 0.07$

$0.07 \overline{)56}$ → $7 \overline{)5600}$
X 100   *X 100*

$6.5 \div 0.13$

$0.13 \overline{)6.5}$ → $13 \overline{)650}$
X 100   *X 100*

$0.52 \div 0.16$

$0.16 \overline{)0.52}$ → $16 \overline{)52}$
X 100   *X 100*

Item 5: Word Problem

Janice and Ayla each have 28.4 kilograms of clay.

Part A Janice uses her clay to make vases. Each vase uses 1.3 kilograms of clay. How many vases can Janice make?

Part B How many kilograms of clay does Janice have left over?

Ayla uses her clay to make 16 equal-size lamps. How many kilograms of clay does Ayla use to make each lamp?