G5-M2-Lesson 26

1. Divide. Then check your work with multiplication.

   a. $48.07 \div 19 = 2.53$

I can estimate.
40 ones $\div 20 = 2$ ones.
I record a 2 in the ones place.

$$\begin{array}{r|l} & 2. \\ \hline 19 & 48.07 \\ - & 38 \\ \hline & 10 \end{array}$$

I can estimate again.
100 tenths $\div 20 = 5$ tenths.
I record a 5 in the tenths place.

$$\begin{array}{r|l} & 2.5 \\ \hline 19 & 48.07 \\ - & 38 \\ \hline & 100 \\ - & 95 \\ \hline & 5 \end{array}$$

I can estimate again.
60 hundredths $\div 20 =$ 3 hundredths.
I record a 3 in the hundredths place.

$$\begin{array}{r|l} & 2.53 \\ \hline 19 & 48.07 \\ - & 38 \\ \hline & 100 \\ - & 95 \\ \hline & 57 \\ - & 57 \\ \hline & 0 \end{array}$$

Check: I'll check my answer by multiplying the quotient and the divisor, 2.53 × 19.

$$\begin{array}{r} 2.53 \\ \times 19 \\ \hline 2277 \\ +\,2530 \\ \hline 48.07 \end{array}$$

After checking, I get 48.07, which does match the original dividend. So I know I solved it correctly.

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b. $122.4 \div 51$

$$\begin{array}{r} 2. \\ 51\overline{)\,1\;2\;2.\;4} \\ -\;1\;0\;2 \\ \hline 2\;0 \end{array}$$

$$\begin{array}{r} 2.\;4 \\ 51\overline{)\,1\;2\;2.\;4} \\ -\;1\;0\;2 \\ \hline 2\;0\;4 \\ -\;2\;0\;4 \\ \hline 0 \end{array}$$

I can estimate.
200 tenths ÷ 50 = 4 tenths.
I record a 4 in the tenths place.

Check: I check my division by multiplying.

$$\begin{array}{r} 5\;1 \\ \times\quad 2.\;4 \\ \hline 2\;0\;4 \\ +\;1\;0\;2\;0 \\ \hline 1\;2\;2.\;4 \end{array}$$

2. The weight of 42 identical mini toy soldiers is 109.2 grams. What is the weight of each toy soldier?

$$\begin{array}{r} 2.\;6 \\ 42\overline{)\,1\;0\;9.\;2} \\ -\;\;8\;4 \\ \hline 2\;5\;2 \\ -\;2\;5\;2 \\ \hline 0 \end{array}$$

I can use division, 109.2 ÷ 42, to find the weight of each toy soldier.

109.2 grams divided by 42 is equal to 2.6 grams with 0 grams remaining.

The weight of each toy soldier is 2.6 grams.

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