G5-M4-Lesson 21

Fill in the blanks.

I think 3 times what is 18, and 5 times what is 30? The missing fraction must be $\frac{6}{6}$.

1. $\frac{3}{5} \times 1 = \frac{3}{5} \times \frac{6}{6} = \frac{18}{30}$

I know that any number times 1, or a fraction equal to 1, will be equal to the number itself.
$\frac{3}{5} = \frac{18}{30}$

In order to write a fraction as a decimal, I can rename the denominator as a power of 10 (e.g., 10, 100, 1,000).
$\frac{1}{10} = 0.1$ $\frac{1}{100} = 0.01$ $\frac{1}{1{,}000} = 0.001$

2. Express each fraction as an equivalent decimal.

a. $\frac{1}{4} \times \frac{25}{25} = \frac{25}{100} = 0.25$

I look at the denominator, 4, and it is a factor of 100 and 1,000.

I can rename $\frac{1}{4}$ as $\frac{25}{100}$, or 0.25.

b. $\frac{4}{5} \times \frac{2}{2} = \frac{8}{10} = 0.8$

I look at the denominator, 5, and it is a factor of 10, 100, and 1,000.

c. $\frac{21}{20} \times \frac{5}{5} = \frac{105}{100} = 1.05$

Since $\frac{21}{20}$ is a fraction greater than 1, the equivalent decimal must also be greater than 1.

d. $3\frac{21}{50} \times \frac{2}{2} = 3\frac{42}{100} = 3.42$

I look at the denominator, 50, and it is a factor of 100 and 1,000.

Since $3\frac{21}{50}$ is a mixed number, the equivalent decimal must be greater than 1.

3. Vivian has $\frac{3}{4}$ of a dollar. She buys a lollipop for 59 cents. Change both numbers into decimals, and tell how much money Vivian has after paying for the lollipop.

$$\frac{3}{4} = \frac{3}{4} \times \frac{25}{25}$$
$$= \frac{75}{100}$$
$$= 0.75$$

I multiply $\frac{3}{4} \times \frac{25}{25}$ to get $\frac{75}{100}$. $\frac{75}{100}$ of a dollar is equal to \$0.75.

$59\ cents = \$0.59$

1 cent = \$0.01

$$\begin{array}{rrrr} & & {\scriptstyle 6} & {\scriptstyle 15} \\ & \$0. & 7 & \not{5} \\ - & \$0. & 5 & 9 \\ \hline & \$0. & 1 & 6 \end{array}$$

I subtract \$0.59 from \$0.75 to find that Vivian has \$0.16 left after paying for the lollipop.

Vivian has \$0.16 left after paying for the lollipop.