G5-N/4-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. $\frac{3}{5} = \frac{18}{30}$

2. Express each fraction as an equivalent decimal.

rename the denominator as a power of 10 (e.g., 10, 100, 1,000). $\frac{1}{10} = 0.1$ $\frac{1}{100} = 0.01$ $\frac{1}{1,000} = 0.001$

$$\frac{1}{10}=0.1$$

$$\frac{1}{100} = 0.01$$

In order to write a fraction as a decimal, I can

$$\frac{1}{1000} = 0.001$$

I look at the denominator, 4, and it is a factor of

100 and 1,000.

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

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

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

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

Lesson 21:

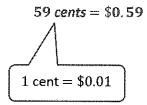
Explain the size of the product, and relate fraction and decimal equivalence to multiplying a fraction by 1.

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.

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

$$= 0.75$$
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.



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.