

Warm Up!

- 1.) Write in agenda book
- 2.) Write the following as improper fractions.

18
 $\frac{18}{1}$

$7\frac{6}{8}$
 $\frac{62}{8}$

Oct 9-8:50 AM

Chapter 4 Pre Test

When done ...

- 1.) Turn the pre test over on your desk
- 2.) You may read or draw on the back

Oct 21-8:14 AM

To Do:

- 1.) Record score on tracker
- 2.) Glue tracker into your notebook
- 3.) Turn pre test in to the tray

Oct 21-8:15 AM

Chapter 4: Operations with Fractions

Lesson 4.1: Multiplying Fractions and Mixed Numbers

Learning Target: I can multiply fractions and mixed numbers.

Oct 9-8:48 AM

Steps for Multiplying Fractions and Mixed Numbers

- 1.) If you have a whole number, write it over 1.
If you have mixed numbers, write them as improper fractions.
- 2.) cross simplify if possible.
- 3.) Multiply the numerators.
- 4.) Multiply the denominators.
- 5.) Simplify if possible.

Oct 9-8:51 AM

Example 1: Multiply $\frac{6}{7} \times \frac{2}{3}$

$$\frac{\overset{2}{\cancel{6^3}}}{7} \times \frac{\underset{1}{\cancel{3^3}}}{2} = \frac{4}{7}$$

Oct 9-8:52 AM

Example 2: Multiply $3\frac{7}{10} \times 7$

$$\frac{37}{10} \times \frac{7}{1} = \frac{259}{10}$$

$\frac{259}{10} = 25\frac{9}{10}$

Oct 9-8:52 AM

Example 3: What is $\frac{3}{5}$ of a \$40 restaurant bill?

$$\frac{3}{5} \times \frac{40}{1} = \frac{120}{5} = 24 = \$24$$

Oct 9-8:52 AM

Example 4: Marianne buys 16 bags of potting soil that comes in $\frac{5}{8}$ pound bags. How many pounds of potting soil does she buy?

$$\frac{5}{8} \times \frac{16}{1} = \frac{10}{1} = 10 \text{ pounds}$$

If Marianne's father calls and says he needs 13 pounds of potting soil, how many additional bags should she buy?

5 bags - $\frac{5}{8}$ + $\frac{24}{8}$

Oct 9-8:53 AM

5 bags

She needs 3 pounds

$$\frac{5}{8} \times \frac{4}{1} = \frac{20}{8}$$

$$\frac{5}{8} \times \frac{3}{1} = \frac{15}{8}$$

$\frac{5}{8}$ lb bags

Oct 21-1:19 PM

H.O.T. FOCUS ON HIGHER ORDER THINKING

Error Analysis To find the product $\frac{3}{7} \times \frac{4}{9}$, Cameron simplified $\frac{3}{7}$ to $\frac{1}{7}$ and then multiplied the fractions $\frac{1}{7}$ and $\frac{4}{9}$ to find the product $\frac{4}{63}$. What is Cameron's error?

Oct 9-9:08 AM

H.O.T. FOCUS ON HIGHER ORDER THINKING

Justify Reasoning To multiply a whole number by a fraction, you can first write the whole number as a fraction by placing the whole number in the numerator and 1 in the denominator. Does following this step change the product? Explain.

Oct 9-9:10 AM