

## Unit 3: Operations with Fractions

1. Can you **add** fractions? --Hint: Common denominator--

$$\frac{1}{6} + \frac{1}{6} =$$

$$\frac{3}{5} + \frac{1}{4} =$$

2. Can you **subtract** fractions?

$$\frac{6}{7} - \frac{2}{7} =$$

$$\frac{7}{8} - \frac{3}{7} =$$

3. Can you **convert mixed fraction and improper fractions?**

$$\frac{15}{4}$$

$$\frac{19}{8}$$

$$\frac{18}{6}$$

$$2\frac{1}{3}$$

$$4\frac{3}{8}$$

$$5\frac{6}{7}$$

4. Can you **multiply** fractions?

$$\frac{3}{5} \times \frac{2}{5} =$$

$$\frac{4}{6} \times \frac{9}{8} =$$

$$2\frac{7}{9} \times 3\frac{1}{4} =$$

$$4 \times \frac{6}{7} =$$

5. Can you **divide** fractions? Multiply the **reciprocal**

$$\frac{7}{12} \div \frac{2}{5} =$$

$$\frac{5}{3} \div \frac{4}{5} =$$

$$1\frac{7}{8} \div 1\frac{1}{4} =$$

$$7 \div \frac{2}{3} =$$

6. Can you simplify before solving? What operations can you apply this skill to?

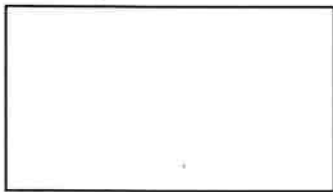
$$\frac{32}{45} \times \frac{42}{56} =$$

$$\frac{72}{64} \div \frac{36}{76} =$$

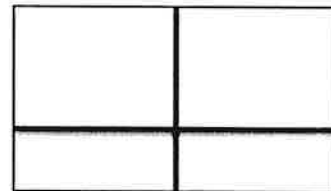
7. Can you use diagrams to represent multiplication of fractions?

**Shaded Rectangle**\* for **proper fractions**

$$\frac{4}{7} \times \frac{2}{5} =$$

**Rectangle Model/Partial Product**\* for **mixed fractions** or double digit plus numbers

$$2\frac{1}{3} \times 5\frac{4}{7} =$$



8. Can you solve fraction word problems:

a) Ms. Lecky ordered pizza for a party.  $1\frac{5}{8}$  of the vegetarian pizza and  $\frac{2}{3}$  of the ham and pineapple pizza were not eaten.  
How much pizza was left?

b) A dressmaker needs  $3\frac{3}{8}$  m of fabric to sew one dress. How many dresses can be made with 28 m of fabric?

9. Solve:

a)  $\frac{7}{9} - (\frac{1}{3} + \frac{5}{6}) \div 3$

b)  $4 \div \frac{2}{3} - 3\frac{1}{4} + \frac{7}{12}$

c)  $\frac{5}{6} - \frac{2}{5} \times (\frac{1}{2} + \frac{1}{6})$

d)  $\frac{5}{6} - \frac{2}{5} \times \frac{1}{2} + \frac{1}{6}$

e)  $(\frac{5}{6} - \frac{2}{5}) \times (\frac{1}{2} + \frac{1}{6})$