

## FRACTION OPERATIONS

**Fraction operations** are the processes of adding, subtracting, multiplying and dividing fractions and mixed numbers. A mixed number is a fraction with a whole number.

**Adding fractions** is common in many everyday events, such as making a recipe and measuring wood. In order to add and **subtract fractions**, the fractions must have the same denominator. If the fractions do not have the same denominator, a common denominator must be found before the fractions can be added or subtracted. Once the fractions have the same denominator the fractions are added, by adding the numerators only and leaving the denominators the same.

**Multiplying fractions** is the operation of multiplying two or more

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### PREVIEW

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When **adding or subtracting fractions**, the denominators must be the same. If the fractions have the same denominator, they can be added or subtracted. If the fractions do not have the same denominator, one must be found before the fractions can be added or subtracted.

**Ex. Add  $\frac{4}{18} + \frac{3}{9} \rightarrow \frac{4}{18} + \frac{6}{18} = \frac{10}{18} = \frac{5}{9}$**



## Try This!

1. **Add** the fractions:  $3/5 + 7/15 = ?$        $8/14 + 3/28 = ?$

$2 \frac{2}{3} + 6 \frac{1}{5} = ?$        $4 \frac{7}{8} + 1 \frac{3}{4} = ?$

2. **Subtract** the fractions:  $8/9 - 2/3 = ?$        $15/16 - 4/8 = ?$

$5 \frac{9}{10} - 3 \frac{2}{5} = ?$        $4 \frac{4}{8} - 1 \frac{1}{4} = ?$

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5. **Solve** the equations for x:

$$x + 3/4 = 11/12$$

$$x - 2 \frac{3}{20} = 2 \frac{4}{5}$$

$$1 \frac{7}{9} \cdot x = 4/18$$

$$2 \frac{5}{6} \div x = 1 \frac{5}{12}$$