

VII. Multiply Fractions.

Steps: 1. **Change to an improper fraction**

2. **reduce diagonally**

3. **multiply straight across**

Examples

$$1. \frac{14}{3} \cdot \frac{7}{6} = \frac{7}{6}$$

$$2. 3\frac{6}{7} \cdot 2\frac{1}{9}$$
$$\frac{24}{7} \cdot \frac{19}{9}$$
$$\frac{3}{7} \cdot \frac{19}{1} = \frac{57}{7} = 8\frac{1}{7}$$

$$3. \frac{1}{18} \cdot \frac{102}{3} = \frac{2}{3}$$

VIII. Divide Fractions.

Steps: 1. **Change to an improper fraction**

2. **Flip n Switch**

3. **reduce diagonally**

4. **multiply straight across**

Examples

$$1. \frac{2}{3} \div \frac{8}{9}$$
$$\frac{12}{18} \cdot \frac{9}{8} = \frac{3}{4}$$

$$2. 4\frac{2}{3} \div 14$$
$$\frac{14}{3} \cdot \frac{1}{14} = \frac{1}{3}$$

$$3. 10 \div \frac{1}{2}$$
$$\frac{10}{1} \cdot \frac{2}{1} = \frac{20}{1}$$