

# Rules for Multiplying Fractions.

## Fraction by Fraction

1. multiply numerators
2. multiply denominators
3. simplify your answer!

$$\underline{\underline{\text{Ex}}} \quad \frac{2}{3} \times \frac{1}{2} = \frac{2 \div 2}{6 \div 2} = \left(\frac{1}{3}\right)$$

## Fraction by Whole Number

1. Change the whole # to a fraction by putting it over 1.
2. multiply numerators
3. multiply denominators
4. simplify!

$$\underline{\underline{\text{Ex}}} \quad 5 \times \frac{1}{4}$$
$$\frac{5}{1} \times \frac{1}{4} = \frac{5}{4} = \left(1 \frac{1}{4}\right)$$

## Fraction by Mixed Number

1. change the mixed # to an improper fraction
2. multiply the numerators
3. multiply the denominators
4. simplify!

$$\underline{\underline{\text{Ex}}} \quad 2 \frac{1}{4} \times \frac{4}{5}$$
$$\frac{9}{4} \times \frac{4}{5} = \frac{36}{20}$$
$$= 1 \frac{16}{20}$$
$$= \left(1 \frac{4}{5}\right)$$