Nest

Numerator

Denominator

Down

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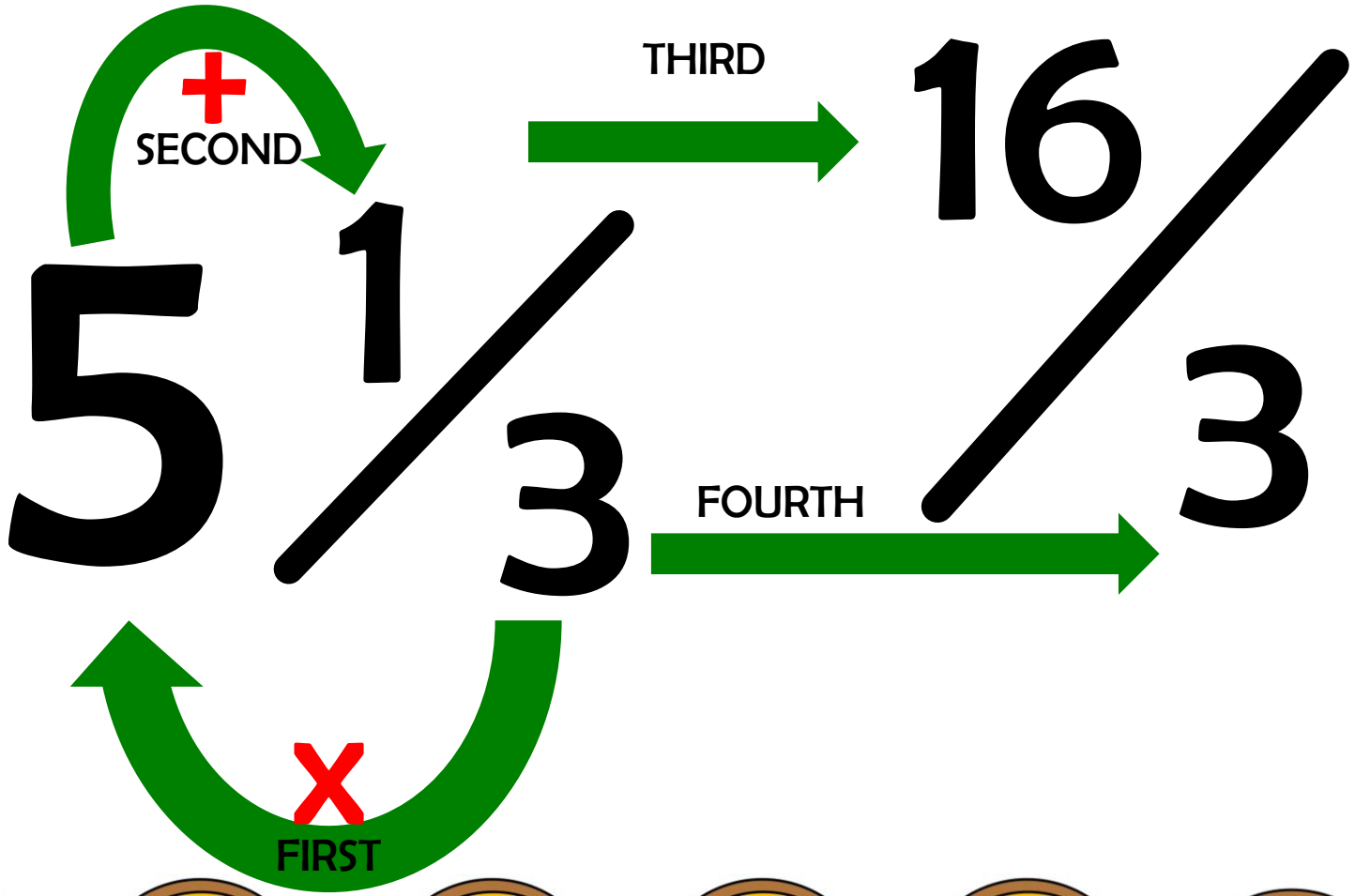
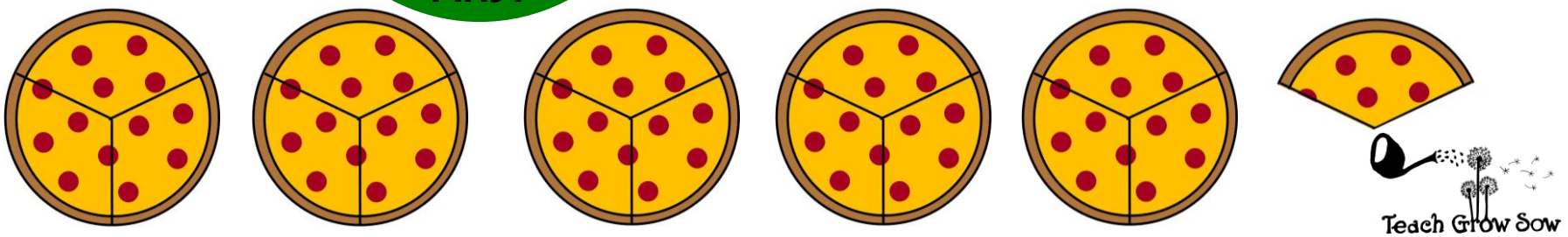
Mixed Number → Improper Fraction





Improper Fraction → Mixed Number

$\frac{16}{3}$

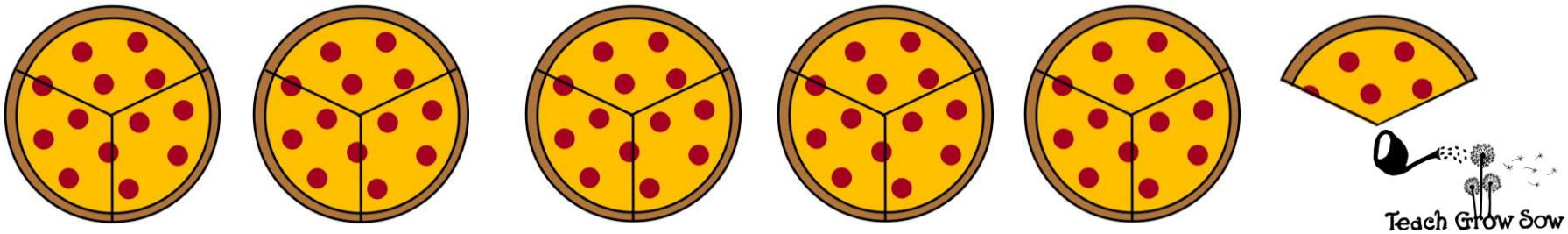
$$3\overline{)16}$$

5

−15

1

$\frac{1}{3}$



Simplest Form = Smallest Fraction

Find the biggest number that both the top and bottom can be divided by:

10 & 12 can both be divided by 2.

4 & 8 can both be divided by 4.

$$\frac{10}{12} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{5}{6}$$

$$\frac{4}{8} \begin{matrix} \div 4 \\ \div 4 \end{matrix} = \frac{1}{2}$$

Equivalent Fractions

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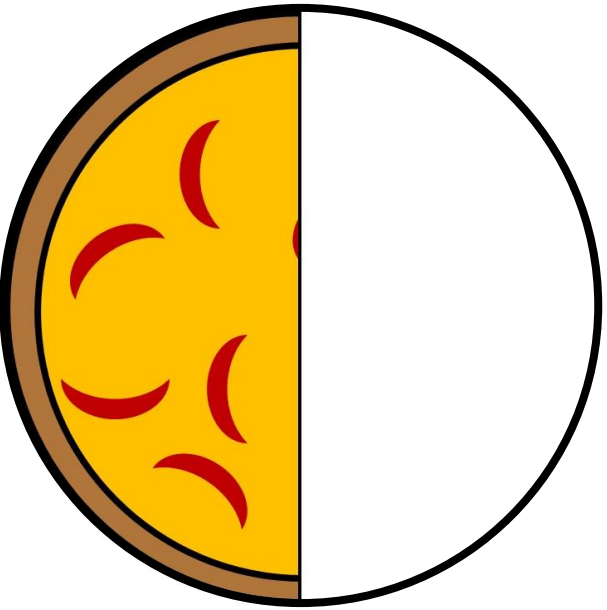
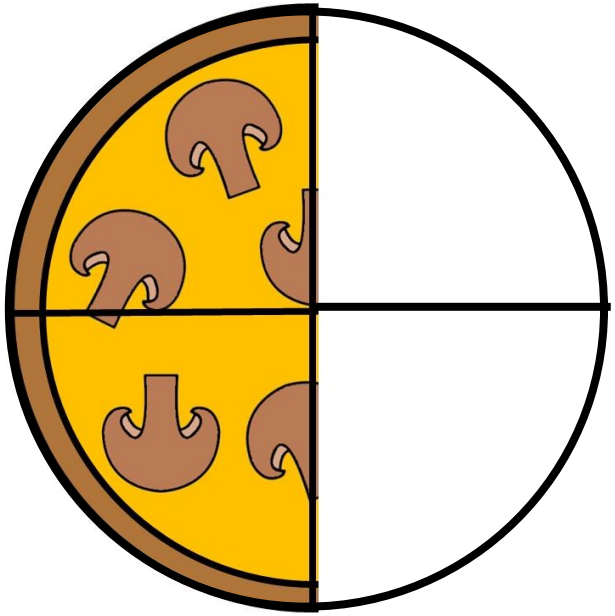
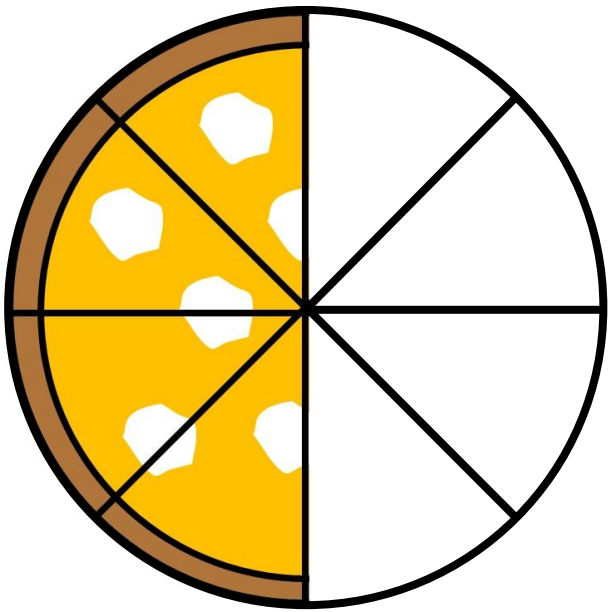
Equal the same amount of pizza!

$\frac{1}{2}$ $\frac{2}{4}$ $\frac{4}{8}$



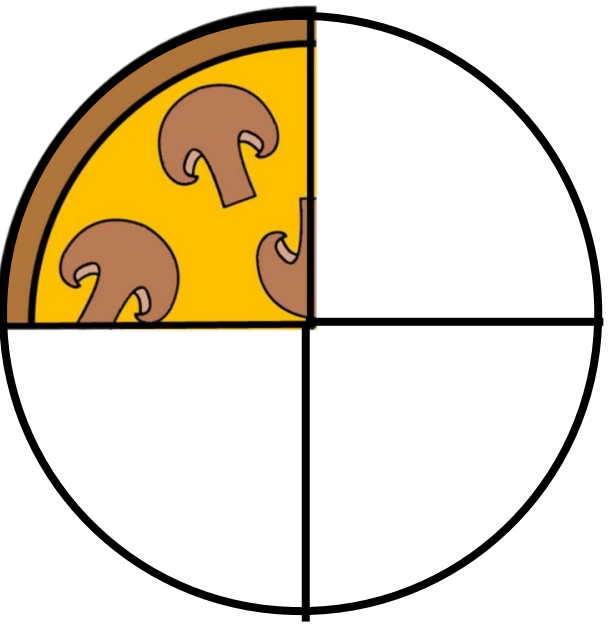


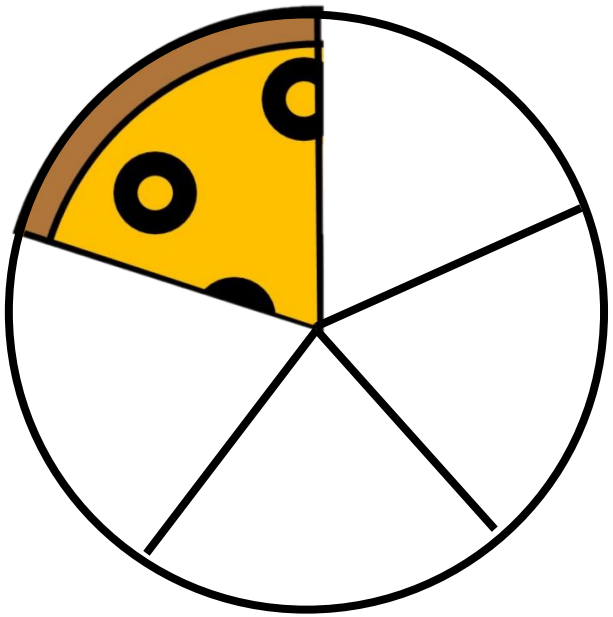


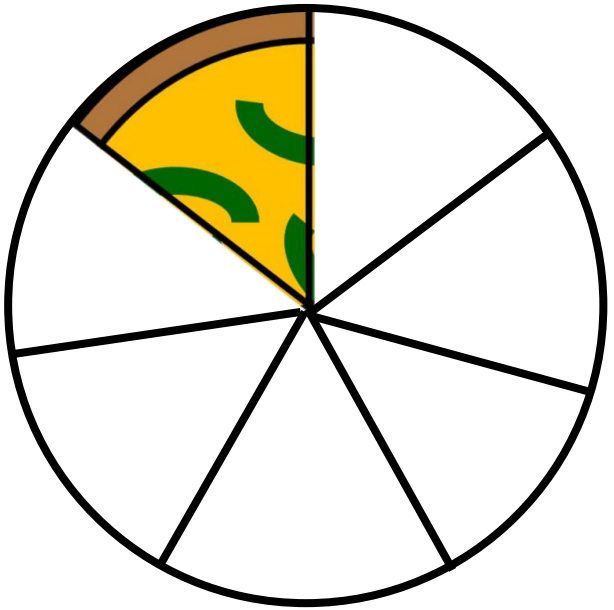
Unit Fractions

Just one slice of pizza!

$\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{7}$







Like Fractions

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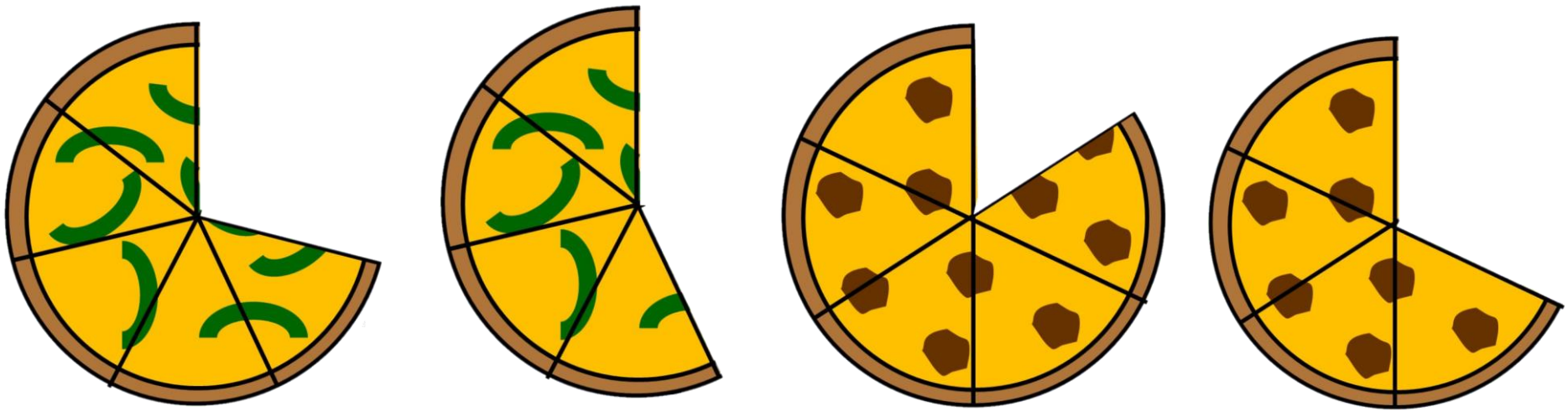
Come from the same pizza!

$\frac{5}{7}$ $\frac{4}{7}$ $\frac{5}{6}$ $\frac{4}{6}$



To Make Like Fractions

Find the smallest multiple shared by all denominators.

3, 4 and 2 can all go into 12.

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

$$\frac{1}{2} \times \frac{6}{6} = \frac{6}{12}$$

Adding & Subtracting

Only add & subtract like fractions.

The bottom stays the same!

$\frac{5}{7} + \frac{4}{7} = \frac{9}{7}$ or $1\frac{2}{7}$

$\frac{5}{7} - \frac{4}{7} = \frac{1}{7}$

Multiplying Fractions

Multiply the tops & the bottoms.

$$\frac{3}{4} \times \frac{4}{5} = \frac{12}{20}$$

$$\frac{5}{7} \times \frac{3}{8} = \frac{15}{56}$$

Dividing Fractions

Flip the divisor upside down & multiply!

$$\frac{4}{5} \div \frac{3}{8}$$

$$\frac{4}{5} \times \frac{8}{3} = \frac{32}{15} \text{ or } 2\frac{2}{15}$$

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