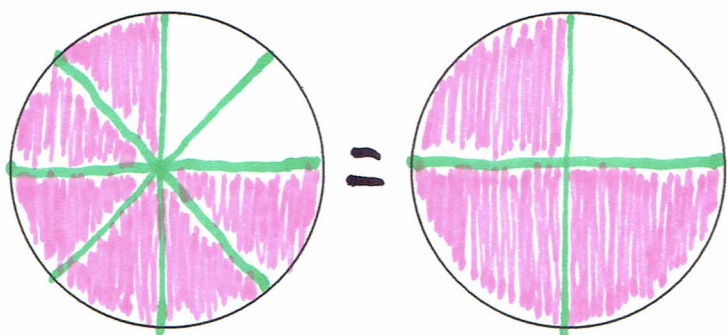


To simplify fractions, divide top & bottom by same value.
This "same value" is a "common factor."

(Divide numerator & denominator by common factor.)

$$\frac{2 \cdot 3}{2 \cdot 4} = \frac{6}{8} \div \boxed{2} = \frac{3}{4}$$

$$\frac{\cancel{6}}{\cancel{8}} = \frac{3}{4}$$



$$\frac{abbb}{aab} = \frac{ab^3}{a^2b} \div \boxed{ab} = \frac{b^2}{a}$$

$$\frac{\cancel{a}b^{3-1}}{a^{2-1}\cancel{b}} = \frac{b^2}{a}$$

$$\frac{3 \cdot 4xyy}{5 \cdot 4xy} = \frac{12xy^2}{20xy} \div \boxed{4xy} = \frac{3y}{5}$$

$$\frac{3 \cancel{12} \cancel{x} \cancel{y}^2}{5 \cancel{20} \cancel{x} \cancel{y}} = \frac{3y}{5}$$

$$\frac{4 \cancel{24} x^{\cancel{5}^2} \cancel{y}^1}{5 \cancel{30} x^{\cancel{3}} y^{\cancel{4}^3}} = \frac{4x^2}{5y}$$

$$\frac{a^{\cancel{3}^2}}{a^{\cancel{1}^1}} = \frac{a^2}{1} = a^2$$

$$\frac{a^{\cancel{1}^1}}{a^{\cancel{3}^2}} = \frac{1}{a^2}$$

$$\frac{\cancel{4}^4 \cancel{8} x^{\cancel{3}^1}}{\cancel{10} x^{\cancel{2}} \underset{5}{\cancel{5}}} = \frac{4x}{5}$$

~~xxx~~
~~xx~~

$$\frac{\cancel{7}^7}{\cancel{10}^10} = \frac{7}{10}$$

$$\frac{-3}{5} = -\frac{3}{5} = \frac{3}{-5}$$

Fractions- Simplify (Reduce to simplest form.)

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$$\frac{0}{5} = 0$$

$$\frac{0}{5} \quad 0 \div 5 = 0$$

if $0 \cdot 5 = 0 \checkmark$

$$\frac{5}{0} = \underline{\underline{\text{undefined}}}$$

$$\frac{5}{0} \quad 5 \div 0 = \cancel{0}$$

if $0 \cdot 0 \neq 5$

Try

$$\frac{12}{4} \quad 12 \div 4 = 3$$

if $3 \cdot 4 = 12 \checkmark$

$$\frac{14}{7} \quad 14 \div 7 = 2$$

if $2 \cdot 7 = 14 \checkmark$