

February 3, 2016

$$\frac{0}{a} = 0$$

↑  
K

Feb 3-9:14 AM

F P I

$$\boxed{\frac{a}{b}} \cdot \frac{c}{c} = \boxed{\frac{ac}{bc}} = \frac{a}{b} \cdot 1 = \boxed{\frac{a}{b}}$$

Equivalent

↓  
R.P.  
GCD = 1

Feb 3-9:20 AM

Operations on Fractions

① Multiplication

$$\frac{a}{b} \cdot \frac{c}{d} = \boxed{\frac{ac}{bd}}$$

R.P.

$$\frac{5}{7} \cdot \frac{2}{11} = \frac{5 \cdot 2}{7 \cdot 11} = \frac{10}{77}$$

$$\frac{3}{8} \cdot \frac{2}{5} = \frac{3 \cdot 2}{8 \cdot 5} = \boxed{\frac{6}{40}}$$

not R.P.

$$\frac{3}{8} \cdot \frac{2}{5} = \frac{3 \cdot \cancel{2}}{\cancel{2} \cdot 8 \cdot 5} = \boxed{\frac{3}{20}}$$

R.P.

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

$$\frac{4x^2}{5y} \cdot \frac{3y^2}{10xy} = \frac{24x^2y^2}{50xy}$$

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

R.P.

Feb 3-9:24 AM

② Division

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \cdot \frac{d}{c}$$

Keep Change to Multiplication

$$\frac{a}{b} \div \frac{c}{d} = \boxed{\frac{ad}{bc}}$$

R.P.

$$\frac{9}{11} \div \frac{2}{3} = \frac{9}{11} \cdot \frac{3}{2} = \boxed{\frac{27}{22}}$$

\* Always do Keep, Change, flip first.

$$\frac{5t^2}{6} \div \frac{10t^3}{3y}$$

$$= \frac{5t^2}{6} \cdot \frac{3y}{10t^3} = \boxed{\frac{y}{4t}}$$

Feb 3-9:42 AM