

June 1, 2015
 Math 0099
 Mr. Michael Goodale

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IPZ

$$\frac{a}{b} \cdot \frac{c}{c} = \frac{a}{b} \cdot 1 = \frac{a}{b}$$

"one"

$b \sqrt{a}$

$$\frac{5}{5} = 5 \sqrt{\frac{1}{5}}$$

$\frac{3}{4} \cdot \frac{12}{12} = \frac{36}{48}$

"one"

$\frac{3}{4}$

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Multiplication

$$\textcircled{1} \frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$$

$$\textcircled{2} \frac{a}{b} \cdot \frac{cb}{d} = \frac{ac \cancel{b}}{\cancel{b}d} = \frac{ac}{d}$$

"one"

$$\textcircled{1} \frac{5}{7} \cdot \frac{8}{9} = \frac{40}{63}$$

$$\textcircled{2} \frac{3}{4} \cdot \frac{24}{13} = \frac{72}{52}$$

$$\frac{3}{4} \cdot \frac{2 \cdot 3 \cdot 4}{13} = \frac{18}{13}$$

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Division

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

Keep Change flip to mult.

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

$$\frac{\frac{x}{5}}{\frac{2}{10}} = \frac{x}{5} \cdot \frac{10}{2} = \frac{x}{1} = x$$

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addition w/ Like Denominators

$$\frac{a}{b} + \frac{c}{b} = \frac{a+c}{b}$$

$$\frac{5}{8} + \frac{1}{8} = \frac{5+1}{8} = \frac{6}{8} = \frac{3}{4}$$

$$\frac{4}{x} + \frac{5}{x} = \frac{4+5}{x} = \frac{9}{x}$$

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addition with unlike Denominators

$$\frac{a}{b} \pm \frac{c}{d} = \frac{ad \pm c \cdot b}{bd}$$

$$\frac{5}{7} + \frac{1}{2} = \frac{5 \cdot 2 + 7 \cdot 1}{7 \cdot 2 = 14} = \frac{10+7}{14} = \frac{17}{14}$$

$$\frac{5}{7} \cdot \frac{2}{2} = \frac{10}{14}$$

"one"

$$\frac{1}{2} \cdot \frac{7}{7} = \frac{7}{14}$$

IPZ

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