

September 9, 2016

\* SSC #2 - Due Monday

CORD 1.1

#6, #14, #20, #28, #36

Sep 9-9:00 AM

\* Fundamental Principle  
Operations on Fractions

① Multiplication

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

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

$$\frac{2}{5} \cdot \frac{10}{3} = \frac{20}{15} = \frac{4}{3}$$

$$\frac{2}{3} \cdot \frac{3}{5} = \frac{2}{5}$$

FACT!

$$-\frac{a}{b} = \frac{-a}{b} = \frac{a}{-b}$$

Sep 9-9:17 AM

② Division

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

Keep Change to Mult. flip

Complex Fractions

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

$$\frac{2}{x} \div \frac{3}{x^2} = \frac{2}{x} \cdot \frac{x^2}{3} = \frac{2x}{3}$$

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③ Addition / Subtraction w/ Like denominators

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

$$\frac{2}{x+1} - \frac{3}{x+1} = \frac{2-3}{x+1} = \frac{-1}{x+1} = -\frac{1}{x+1}$$

Sep 9-9:36 AM

④ + or - w/ unlike denominators

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

Fundamental Principle

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

$$\frac{c}{d} \cdot \frac{b}{b} = \frac{bc}{bd}$$

$$-\frac{3}{8} + \frac{11}{5} = \frac{(-3)(5) + 11(8)}{8 \cdot 5 = 40}$$

$$= \frac{-15 + 88}{40} = \frac{73}{40}$$

Sep 9-9:39 AM

$$\frac{5}{7} - \frac{2}{3} = \frac{15 - 14}{21} = \frac{1}{21}$$

Sep 9-9:47 AM