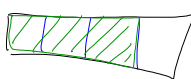


September 16, 2015  
 \* Exam #1 - Wednesday  
 Sep. 23  
 Chp 1, 2, Fractions

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①  $\cancel{FPZ}$  equivalent fractions  
 $\frac{a}{b} \cdot \frac{c}{c} = \frac{ac}{bc} = \frac{a}{b} \cdot 1 = \frac{a}{b}$   
 a & b are Real numbers  
 and  $b \neq 0$   
 $\frac{5}{3} \cdot \frac{7}{7} = \frac{35}{21}$   
 $\frac{5}{8} \nmid \frac{11}{14}$   $8 \cdot 14 = 112$   
 $\frac{5}{8} \cdot \frac{14}{14} = \frac{70}{112}$   
 $\frac{11}{14} \cdot \frac{8}{8} = \frac{88}{112}$   
 $\frac{70}{112} < \frac{88}{112}$

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$\frac{9}{0} = \text{Undefined}$   
 $\frac{3}{4}$  of 

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Like Denominators  
 $\frac{3}{11} + \frac{5}{11} = \frac{3+5}{11}$   
 $= \frac{8}{11}$

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Addition w/  
 Unlike Denominators  
 $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$   
 $b \neq d \neq 0$   
 $\frac{a}{b} \cdot \frac{d}{d} = \frac{ad}{bd}$   
 $\frac{c}{d} \cdot \frac{b}{b} = \frac{bc}{bd}$

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

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$$\frac{3}{8} - \frac{1}{3} = \frac{9-8}{24} = \frac{1}{24}$$

$$\frac{1}{4} + \frac{5}{12} = \frac{3+5}{12} = \frac{8}{12} = \frac{2}{3}$$

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$$\frac{11}{x} - \frac{5}{6} = \frac{66-5x}{6x}$$

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$$\frac{\frac{2}{5} + \frac{1}{3}}{\frac{6}{10} - \frac{1}{2}} = \frac{\frac{6+5}{15}}{\frac{6-5}{10}}$$

$$= \frac{\frac{11}{15} \cdot \frac{10}{10}}{\frac{1}{10} \cdot \frac{10}{10}}$$

$$= \frac{11 \cdot 10}{15 \cdot 1} = \frac{110}{15} = \frac{22}{3}$$

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$$\frac{\frac{2}{9} - \frac{11}{13}}{\frac{1}{2} + \frac{2}{13}} = \frac{\frac{26-99}{117}}{\frac{13+4}{26}}$$

$$= \frac{-\frac{73}{117} \cdot \frac{26}{26}}{\frac{17}{26}}$$

$$= -\frac{73}{9 \cdot 13} \cdot \frac{2 \cdot 13}{17}$$

$$= -\frac{146}{153}$$

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$$\frac{2}{1} - \frac{13}{8} = \frac{16-13}{8} = \frac{3}{8}$$

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Mixed Fractions  
Converting

$$2 \frac{5}{7} = \frac{(2 \cdot 7) + 5}{7}$$

$$= \frac{14 + 5}{7}$$

$$= \frac{19}{7}$$

$$\frac{19}{7} = 7 \frac{5}{7}$$

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