

September 16, 2016

① IPII

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

"one"

Equivalent Fractions

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

equivalent

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$$\frac{8}{x} \cdot \frac{5}{5} = \frac{40}{5x}$$

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Common Denominator

28

$$\frac{5}{7} \cdot \frac{3}{3} = \frac{15}{21}$$

$$\frac{11}{3} \cdot \frac{7}{7} = \frac{77}{21}$$

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$$\frac{96}{48} = \frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}$$

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

$$= \frac{2}{1} \text{ Rational}$$

$$= 2 \text{ Integer}$$

96  
② ↙  
48  
② ↙  
24  
② ↙  
12  
② ↙  
6  
② ↙  
3

$$\frac{2}{1} \cdot \frac{48}{48} = \frac{96}{48}$$

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Operations on Fractions

① Multiplication

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

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

②  $\frac{8}{9} \cdot \frac{6}{7} = \frac{48}{63}$

$\frac{8}{9} \cdot \frac{2}{7} = \frac{16}{21}$

$$\frac{8}{3 \cdot 3} \cdot \frac{2 \cdot 3}{7} = \frac{8 \cdot 2 \cdot 3}{3 \cdot 3 \cdot 7}$$

$$= \frac{2 \cdot 2 \cdot 8}{3 \cdot 3 \cdot 7}$$

$$= \frac{16}{21}$$

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