

September 20, 2017

$a \cdot b = 1$

① a & b are multiplicative inverse of each other.

② If $a=1$ & $b=1$
 $1 \cdot 1 = 1$
 $a(bc) = (ab)c$

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b.) $15 \div 5 = 25$

c.) $15 \div 30 = \frac{1}{2}$

$a(b+c) = ab + ac$

① $3(x+3) = 6$
 $3x + 9 = 6$

② $\frac{2x - 4y + 4z}{4}$
 $\frac{2(x - 2y + 2z)}{4}$
 $\frac{x - 2y + 2z}{2}$

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$2(3+4) = 6 + 8$
 $= 14$

$2(3+4)$
 $2(7) = 14$

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Addition w/ Unlike Denominators

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

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

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

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

$\frac{10}{14} + \frac{7}{14} = \frac{10+7}{14} = \frac{17}{14}$

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$\frac{39}{43} = \frac{1 \cdot 3 \cdot 13}{1 \cdot 43}$

$\frac{3}{4} = \frac{1 \cdot 3}{1 \cdot 2 \cdot 2}$

"1" as the only common factor the we say the numbers are Relatively Prime.

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