

September 2, 2015

$$\nabla(\Delta + -\dot{-}) = \text{smiley}(\nabla - \$) \text{ for } \nabla$$

$$\nabla(\Delta + -\dot{-}) = \text{smiley} \nabla - \text{smiley} \$ \text{ Dist}$$

$$\nabla(\Delta + -\dot{-}) - \text{smiley} \nabla = -\text{smiley} \$ \text{ A.D.}$$

$$\frac{\nabla(\Delta + -\dot{-})}{(\Delta + -\dot{-})} = \frac{-\text{smiley} \$}{(\Delta + -\dot{-})} \text{ M.D.}$$

Sep 2-1:00 PM

$$\nabla(\Delta + -\dot{-}) - \text{smiley}(\nabla - \$) \text{ for } \nabla$$

$$\nabla \Delta + \nabla - \dot{-} = \text{smiley} \nabla - \text{smiley} \$ \text{ Dist}$$

$$\nabla \Delta + \nabla - \dot{-} - \text{smiley} \nabla = -\text{smiley} \$ \text{ A.D.}$$

$$\nabla(\Delta + -\dot{-} - \text{smiley}) = -\text{smiley} \$ \text{ Dist}$$

$$\nabla = \frac{-\text{smiley} \$}{(\Delta + -\dot{-} - \text{smiley})}$$

Sep 2-1:15 PM

$$\frac{2x - 4}{2} = \frac{8}{2}$$

$$x \neq 4$$

$$\frac{2x - 4}{2} = \frac{8}{2}$$

okay part!

$$x - 2 = 4$$

$$x = 6$$

$$\frac{2x - 4}{2} = \frac{8}{2}$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

Sep 2-1:11 PM

$$3(x-4) = 2(x+3) + 2$$

$$3x - 12 = 2x + 6 + 2 \text{ Dist}$$

$$3x - 12 = 2x + 8 \text{ Add 2}$$

$$-2x + 12 = -2x + 12 \text{ A.D.}$$

$$1x = 20 \text{ A.D.}$$

Sep 2-1:36 PM

$$5 \cdot 4$$

4+4+4+4+4=20

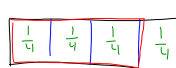
5 groups of 4

$$4 \cdot 5 = 5 + 5 + 5 + 5$$

4 groups of 5

Sep 2-1:43 PM

$\frac{3}{4}$ of some whole $\frac{4}{4} = 1$



$\frac{5}{0}$ of some whole

Undefined

$$5 \cdot 0 = 0 + 0 + 0 + 0 + 0 = 0$$

$$\frac{0}{5} \rightarrow 5 \overline{)0}$$

Sep 2-1:59 PM

Area $\rightarrow l \cdot w$

$w = 3 \text{ unit-feet}$

$l = 4 \text{ units}$

$A = 4 \cdot 3$
 $= 12 \text{ feet}^2$

$A = \text{feet} \cdot \text{feet}$
 $= \text{feet}^2$

Sep 2-2:07 PM

$$a = \frac{15}{5} = 5 \begin{array}{r} 3 \\ 5 \overline{) 15} \\ \underline{-15} \\ 0 \end{array}$$

$0 \leftarrow \text{remainder}$

Sep 2-2:11 PM

$15 = 1 \cdot 15$

$15 = 3 \cdot 5 \text{ or } 5 \cdot 3$

15 (circled) \uparrow Product of the factors $3 \cdot 5$

factors of 15

a.) $\frac{15}{3} = 5$

b.) $\frac{15}{5} = 3$

Sep 2-2:11 PM

Prime Numbers

Def.: Is a number that is divisible by itself and "one".

$P = \{2, 3, 5, 7, 11, 13, 17, 19, \dots\}$

Composite Number

* Not Prime

$6 = 2 \cdot 3 \cdot 1$

Product of Primes

Prime Factorization

Sep 2-2:15 PM

Factor Tree

$24 = 2 \cdot 2 \cdot 2 \cdot 3$
 $= 2^3 \cdot 3$

Sep 2-2:22 PM

$196 = 2 \cdot 2 \cdot 7 \cdot 7$
 $= 2^2 \cdot 7^2$

Sep 2-2:26 PM

Exponents

$$a^m = \underbrace{a \cdot a \cdot a \cdots a}_{m \text{ times}}$$

\uparrow
Base

$$5^3 = 5 \cdot 5 \cdot 5$$
$$= 25 \cdot 5$$
$$= 125$$

Note:

a.) $(-4)^2 = (-4) \cdot (-4)$
 \uparrow
Base = 16

b.) $-4^2 = (-1) \cdot 4^2$
 $= (-1) \cdot 4 \cdot 4$
 $= (-4) \cdot 4$
 $= -16$

Sep 2-2:31 PM