

August 19, 2015

$$S = \{ \text{Student, Book, Sleep} \}$$

elements or members

$$N = \{ 1, 2, 3, \dots \}$$

Natural

$$A = \{ 1, 2, 3, \dots, 60 \}$$

$$B = \{ 2, 4, 6, \dots, 60 \}$$

finite

Aug 19-1:00 PM

$$W = \{ 0, 1, 2, \dots \}$$

$$D = \{ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 \}$$

Base 10

1 9 6 4 \rightarrow *Place Value*

thousands hundreds tens ones

$$1 \cdot 1000 + 9 \cdot 100 + 6 \cdot 10 + 4 \cdot 1$$

Aug 19-1:42 PM

Rounding

1964 \approx 2000 *approx to*

① if number is ≥ 5
then target goes to next higher value.

2000

② if number is less than 5,
keep target and change other number to zero.

1933 \approx 1900

Aug 19-1:49 PM

Addition

$$3 + 5 = 8$$

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Commutative Tool

$$a + b = b + a$$

$$3 + 5 = 5 + 3$$

$$8 = 8$$

$$3 \cdot 5 = 5 \cdot 3$$

$$15 = 15$$

$$5 - 3 = 3 - 5$$

$$2 = -2$$

Aug 19-2:04 PM

$$\boxed{2x} + \boxed{5} = \boxed{5} + \boxed{2x}$$

Aug 19-2:20 PM

$$3 + (5 + 2) = (3 + 5) + 2$$

$$3 + (7) = (8) + 2$$

$$10 = 10$$

Aug 19-2:21 PM

$$\begin{aligned} \textcircled{1} & 4 + (5y + 3) \\ \textcircled{2} & 4 + (3 + 5y) \text{ Comm.} \\ \textcircled{3} & (4 + 3) + 5y \text{ assoc.} \\ \textcircled{4} & 7 + 5y \text{ add(Combine)} \end{aligned}$$

Aug 19-2:25 PM

$$\begin{aligned} & 97 + 68 \\ & \begin{array}{r} 97 \\ + 68 \\ \hline 155 \end{array} \\ & 97 = 9 \cdot 10 + 7 \cdot 1 \\ & 68 = 6 \cdot 10 + 8 \cdot 1 \\ & (9 \cdot 10 + 7 \cdot 1) + (6 \cdot 10 + 8 \cdot 1) \\ & 9 \cdot 10 + 7 \cdot 1 + 6 \cdot 10 + 8 \cdot 1 \text{ assoc.} \\ & 9 \cdot 10 + 6 \cdot 10 + 7 \cdot 1 + 8 \cdot 1 \text{ Comm.} \\ & (9 \cdot 10 + 6 \cdot 10) + (7 \cdot 1 + 8 \cdot 1) \text{ assoc.} \\ & (9+6) \cdot 10 + (7+8) \cdot 1 \\ & 15 \cdot 10 + 15 \cdot 1 \\ & 150 + 15 \\ & 165 \end{aligned}$$

Aug 19-2:34 PM

Read 1.1 & 1.2
Do 1.1 practice set

Aug 19-2:46 PM