

# November 17, 2014 <sup>5th</sup> <sup>6th</sup>

## Starter

---

$$1. \quad -10 + 5 - 6$$
$$= -16 + 5$$
$$= -11$$

$$2. \quad 4.6 + -9.8 + 5$$
$$= 9.6 + -9.8$$
$$= -0.2$$

$$3. \quad -2\frac{1}{4} + 1\frac{7}{8}$$

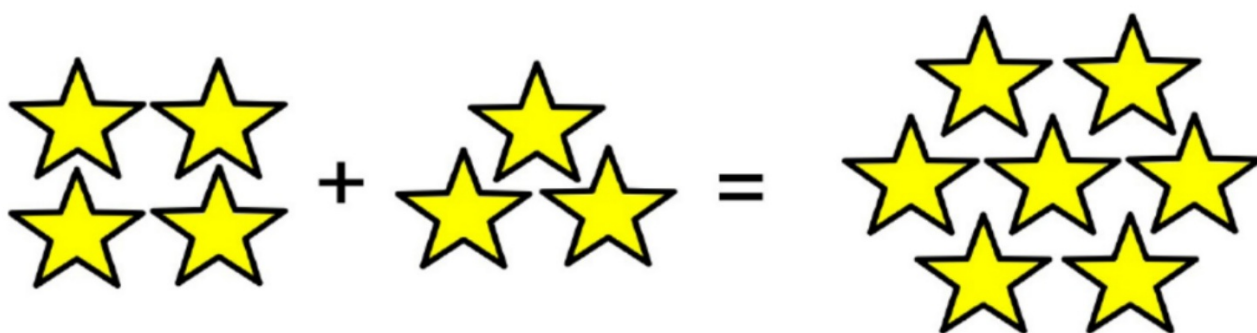
$$\begin{array}{r} 1 \\ -2\frac{1}{4} \\ + 1\frac{7}{8} \\ \hline -1\frac{1}{8} \end{array}$$

*(Note: The original image contains some handwritten scribbles and a vertical line of text that is difficult to decipher, possibly indicating a common denominator of 8.)*

$$\begin{array}{r} 5.0 \\ 4.6 \\ \hline 9.6 \end{array} \quad \begin{array}{r} -9.8 \\ +9.6 \\ \hline -0.2 \end{array}$$

Digitool

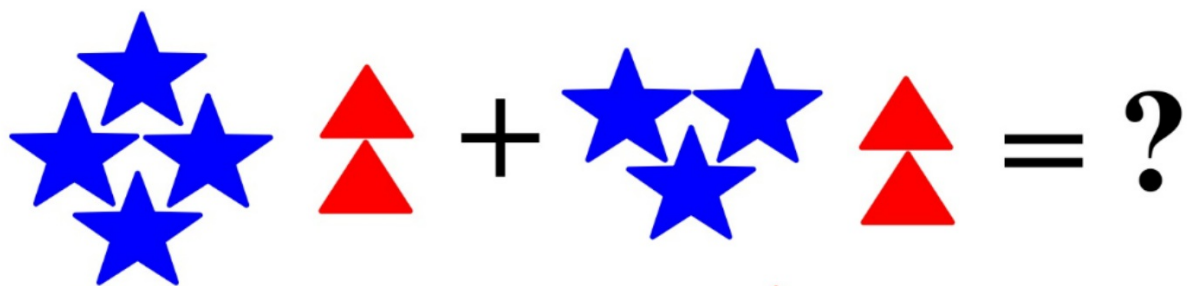
## 11/17 - Combining LIKE terms



$$4s + 3s = 7s$$

$$5t + 3t = 8t$$

$$10r - 7r = 3r$$



a "Variable" is  
a letter that represents a number

$$4s + 2t + 3s + 2t = ?$$
$$7s + 4t$$

# Simplify by combining like terms.

Same Variable

$$\begin{array}{r}
 7r + 3 + 6 \\
 \begin{array}{cccc}
 r & r & & \\
 r & r & r & \\
 r & r & & 
 \end{array}
 \quad ||| \quad |||| \\
 = 7r + 9
 \end{array}$$

$$\begin{array}{r}
 \underline{2} + \underline{-7a} + \underline{1a} + \underline{9} \\
 = -6a + 11
 \end{array}$$

The positive becomes the ADD.  
 If the # in front of the variable is missing, it is a ONE

The term with variable always goes first!

$$\begin{array}{r}
 \underline{1n} + \underline{-2} + \underline{-2n} \\
 = -1n + -2 \\
 = -n - 2
 \end{array}$$

$$\begin{array}{r}
 \underline{9x} + \underline{9} + \underline{-10} + \underline{-5x} \\
 = 4x - 1
 \end{array}$$

$$\begin{array}{r}
 9 \\
 + 70 \\
 \hline
 -1
 \end{array}$$

## Now with decimals...

$$\underline{3.4x} - \underline{4.5} + \underline{6.2x}$$
$$= 9.6x - 4.5$$

The number in front of the variable is a "coefficient"

$$\begin{array}{r} + 6.2 \\ + 3.4 \\ \hline 9.6 \end{array}$$

The number without a variable is the "constant"

$$\underline{2.16r} - \underline{6.3} + \underline{-7r} + \underline{6.8}$$
$$= -4.84r + 0.5$$

$$\begin{array}{r} 6.9 \\ - 7.00 \\ \hline + 2.16 \\ \hline - 4.84 \end{array} \quad \begin{array}{r} + 6.8 \\ - 6.3 \\ \hline + 0.5 \end{array}$$

# Homework

Gold WS 1

**Due** Wednesday