

November 17, 2014^{4th}

Starter

$$\begin{aligned} 1. \quad & \underline{-10} + 5 - \underline{6} \\ & = -16 + 5 \\ & = \underline{-11} \end{aligned}$$

$$\begin{aligned} 2. \quad & \underline{4.6} - \underline{9.8} + \underline{5} \\ & = 4.6 - 9.8 \\ & = \underline{-0.2} \end{aligned}$$

$$\begin{aligned} 3. \quad & -2\frac{1}{4} + 1\frac{7}{8} \\ & \begin{array}{r} 1 \\ -2 \cdot \frac{2}{4} = \frac{10}{8} \\ + 1 \cdot \frac{7}{8} \\ \hline 1 \frac{7}{8} \end{array} \end{aligned}$$

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

Digitool

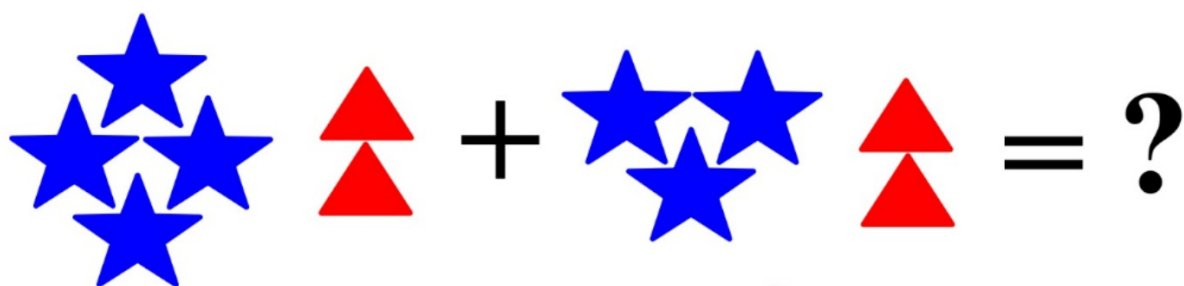
11/17 - Combining LIKE terms



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

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

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



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

Add the terms with the same variables

$$7s + 4t$$

Simplify by combining like terms.

$$\begin{array}{r} 7r + 3 + 6 \\ \begin{array}{ccc} \color{red}{\cancel{r}} & \color{red}{\cancel{r}} & \color{red}{\cancel{r}} \\ \color{red}{\cancel{r}} & \color{red}{\cancel{r}} & \color{red}{\cancel{r}} \end{array} \quad ||| \quad \color{red}{\cancel{3}} \color{red}{\cancel{3}} \color{red}{\cancel{3}} \\ = 7r + 9 \end{array}$$

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

If the # in front of a variable is missing, it is a ONE.

$$\begin{array}{r} \color{red}{-7} \\ \color{red}{+1} \\ \hline \color{red}{-6} \end{array} \quad \begin{array}{r} \color{green}{3} \\ \color{green}{+9} \\ \hline \color{green}{11} \end{array}$$

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

The term with the variable ALWAYS goes first!

$$\begin{array}{r} +1 \\ -2 \\ \hline -1 \end{array}$$

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

← The negative becomes the subtract.

Now with decimals...

$$\begin{aligned} &\underline{3.4x} - 4.5 + \underline{6.2x} \\ &= 9.6x - 4.5 \end{aligned}$$

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

↑
The number without a variable is a "constant"
↑
The # in front of the variable is called a "coefficient."

$$\begin{aligned} &\underline{2.16r} + \underline{-6.3} + \underline{-7r} + 6.8 \\ &= -4.84r + 0.5 \end{aligned}$$

$$\begin{array}{r} \overset{6}{\cancel{7}}.00 \\ + 2.16 \\ \hline -4.84 \end{array} \quad \begin{array}{r} +6.8 \\ -6.3 \\ \hline 0.5 \end{array}$$

Homework

Gold WS1

Due Wednesday