

3.1. Variables

Dec. 12, 2006

Alliance grows in Population
By 350 people a year. Currently
the Population is 155,000.

$$\text{Int. Pop.} + 350 \cdot \text{years} = \text{New. Pop.}$$

$$155,000 + 350 \cdot 1 = 155,350$$

$$155,000 + 350 \cdot 2 = 155,700$$

$$\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$$
$$155,000 + 350 \cdot y = \underline{\underline{155,000 + 350y}}$$

- Coefficient: The Number
in front of ~~with~~ the variable. *comb. like terms*

$$\begin{array}{lcl} 4x & \rightarrow & \text{Coeff } 4 \\ -5x & \rightarrow & -5 \\ \frac{15}{2}x & \rightarrow & \frac{15}{2} \\ x & \rightarrow & 1 \end{array}$$

Add Variable
by Adding
the Coefficient
if the Variables
are the Same &
the exponents are
the same.

Simplify:

$$\begin{aligned} 2 \cdot 3 &= 6 \\ 3 + 3 &= 6 \end{aligned}$$

$$\begin{aligned} 2(-5y) &= \underline{\underline{-10y}} \\ -5y - 5y &= \underline{\underline{-10y}} \end{aligned}$$

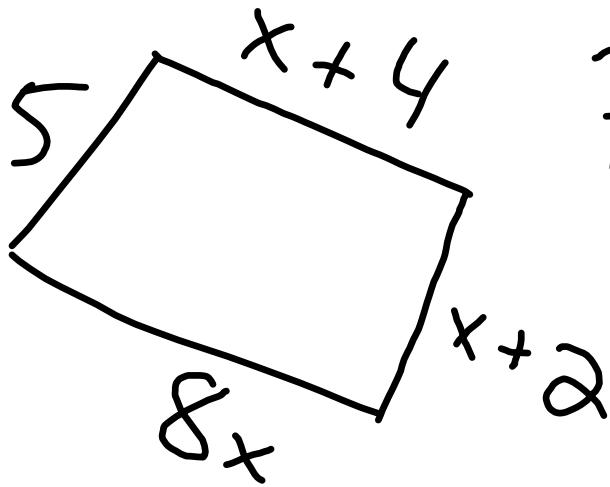
$$\begin{aligned} = 5b + 3b &= \underline{\underline{-2b}} \quad \left\{ \begin{aligned} 4c + 2c &= \underline{\underline{6c}} \end{aligned} \right. \end{aligned}$$

$$\begin{aligned} 5x - (2x - 5) \\ 5x - (2x) \ominus (5) \\ \underline{5x} - \underline{2x} + 5 \\ \underline{\underline{3x + 5}} \end{aligned}$$

$$\begin{aligned} -(a+b) \\ = \\ -a-b \end{aligned}$$

Find the Perimeter.

Distance around. "Outside"



$$\begin{aligned} P &= \cancel{x+4} + \cancel{x+2} + \cancel{8x} + 5 \\ &= \underline{\underline{10x+11}} \end{aligned}$$

O.T.L.

Pg 76: Exp. 1-15(0)

Written: 1-43 (e.o.o)

1, 5, 9, 13, 17, 21, ...