

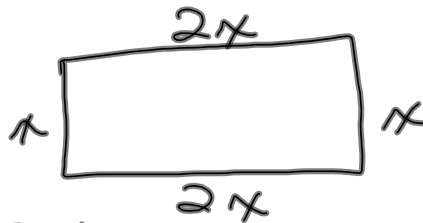
Like Terms
exactly the same variable

Constant
alone - no variable

Coefficient
the # before the variable

$-6a + 3b + 7$ the sign goes with the number.

46.)



$$P = x + x + 2x + 2x$$

$$P = 6x$$

a.)

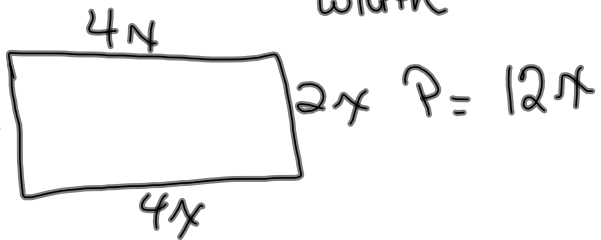
x width	$P = 6x$ Perimeter
1	6
2	12
3	18
4	24
5	30
6	36

b.) (width, perimeter)



c.) $P = 6w$

d.) The perimeter would also double.



$$\begin{aligned}
 50) \quad & 72(38) + \boxed{(-72)(18)} - 1 = 72 - 18 \\
 & 2736 \quad -1296 \\
 & \frac{1440}{72} = 20 \\
 & 72(38 - 18) = 1440
 \end{aligned}$$

1. multiply $(-72)(18)$ by -1 Multiplicative Identity
2. commutative $72(38) + 72(-18)$
3. distributive $72(38 - 18)$
4. solve $38 - 18 = 20$
5. $72(20) = 1440$ solve

28.)

$$-x|-2y|-8x|-2y$$

$$-9x - 4y$$

Two numbers w/ the
same sign
ADD!

4-3 Solving Equations by Adding + Subtracting

Equation = equal two sides equal one another

Solution - solve for a variable

$$\begin{array}{r}
 +120 + x = 168 \\
 -120 \quad \underline{-120}
 \end{array}
 \quad
 \begin{array}{c|c}
 \text{Do} & \text{Undo} \\
 \hline
 +120 & -120
 \end{array}$$

$$x = 48$$

$$\begin{array}{r}
 x + 120 = 168 \\
 -120 \quad \underline{-120}
 \end{array}$$

$$x = 48$$

Inverse Operations (Undo)

^{Do} operation	^{undo} inverse
+	-
×	÷
÷	×
-	+

$$\begin{array}{r} x - 7 = -4 \\ + 7 \quad + 7 \\ \hline x = 3 \end{array}$$

$$\begin{array}{r} D | U \\ -7 | +7 \end{array}$$

$$\begin{array}{r} -13.9 = n \\ + 9.7 \\ \hline -4.2 = n \end{array}$$

$$\begin{array}{r} D | U \\ -9.7 | +9.7 \end{array}$$

$$30.) \quad f - (-40) = -12$$

Rewrite (simplify) before you use your do/undo chart.

$$\begin{array}{r} f + \cancel{40} = -12 \\ \quad \quad \quad \cancel{-40} \quad \quad \quad \cancel{-40} \end{array} \quad \begin{array}{r|l} \text{D} & \text{U} \\ \hline +40 & -40 \end{array}$$

$f = -52$

3b)

$$y + 5.8 = \frac{3}{20}$$

$$y + 5.8 = 0.15$$

$$y + 5\frac{4}{5} = \frac{3}{20}$$

Rewrite
before
you use the
do/undo
chart.

4-1 68.)



$$P = 25 \text{ ft.}$$

$$25 + 2' 9'' + 2' 9'' + 3' 9'' + 3' 9''$$

$$+ \begin{array}{r} 35' \\ 3' \end{array} \quad \begin{array}{r} 9'' \\ \times 4 \\ \hline 36'' = 3 \text{ ft.} \end{array}$$

$$\text{New } P = \textcircled{38 \text{ ft}}$$