# 2.5 Distributive Prop

In the expression $-x + 2x + 8$

<u>Terms</u> are the parts that are added together (subtracted)

$-x, 2x \: \& \: 8$ are the terms

<u>Like Terms</u> - Terms with same variable or are #'s without a variable

$-x \: \& \: 2x$ are like terms

<u>Constant Terms</u> - # without a variable

$8$ is the constant term

<u>Coefficient</u> - The # in front of a variable

$-x \: \& \: 2x$ are $-1 \: \& \: 2$

$-1$ ↑ coeff.

<u>Example</u>

Find constant, coeff., terms & like terms for

$$3x - 4 - 6x + 2$$

Terms: $3x, -4, -6x, 2$      Coeff: $3 \: \& \: -6$

Like terms: $-4 \: \& \: 2, \: 3x \: \& \: -6x$  Constants: $-4 \: \& \: 2$

# Simplify

$$4(y+3) = \boxed{4y+12}$$

$$4 \cdot y + 4 \cdot 3$$

$$(y+7)y = \boxed{y^2+7y}$$

$$y \cdot y + 7 \cdot y$$

$$y^2 + 7y$$

$$(2-n)8$$

$$\boxed{16-8n}$$

$$-1(n+9)$$

$$-n + {}^-9$$

$$\boxed{-n-9}$$