

Equivalent Expressions and Combining Like Terms

Types of Like Terms:

A. Variables raised to the same exponent are like terms.

B. Constants are like terms.

(Note : Terms are separated by addition and/or subtraction signs.)

$$12n + 5b + 18 + 6n - 2b$$

$$12n + 6n$$

$$5b - 2b$$

$$18$$

$$0$$

$$0$$

$$18n + 3b$$

$$3x^2 + 12 + x^2 - 3y - 8$$

$$3x^2 + x^2$$

$$-3y$$

$$12 - 8$$

$$0$$

$$0$$

$$4x^2 - 3y + 4$$

$$4 + 6(x+3) + 2x$$
$$4 + 6x + 18 + 2x$$

$$6x + 2x$$

$$4 + 18$$

$$0$$

$$0$$

$$0$$

$$8x + 22$$

$$8y + x + x - 5y + x + 3x$$

$$x + x + x + 3x$$

$$8y - 5y$$

$$0$$

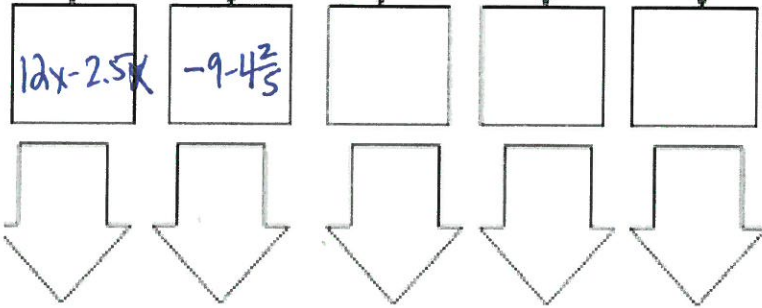
$$0$$

$$0$$

$$6x + 3y$$

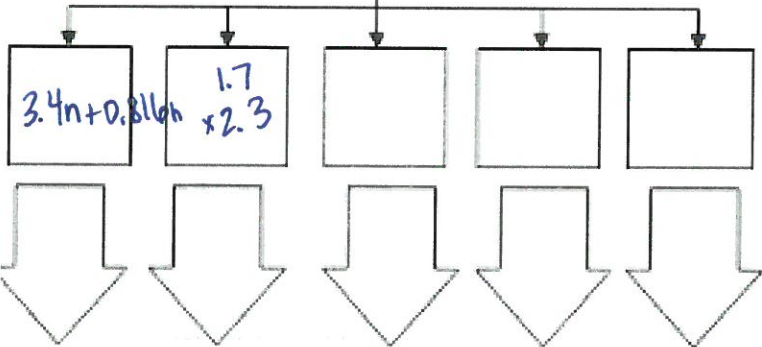
$$3(4x-3) - 2.5x - 4\frac{2}{5}$$

$$12x - 9 - 2.5x - 4\frac{2}{5}$$



$$9.5x - 13\frac{2}{5}$$

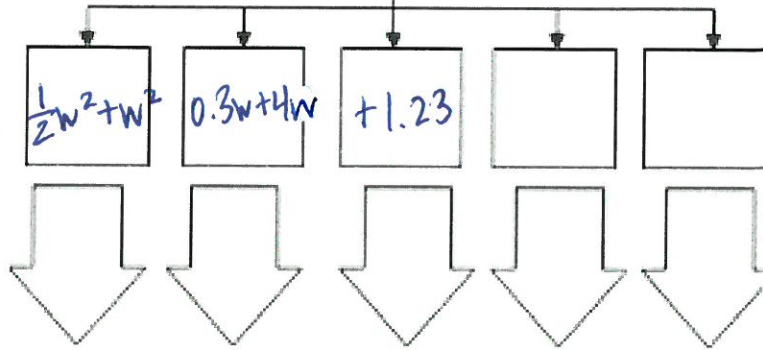
$$3.4n + 1.7(2.3) + 0.816n$$



$$4.216n + 3.91$$

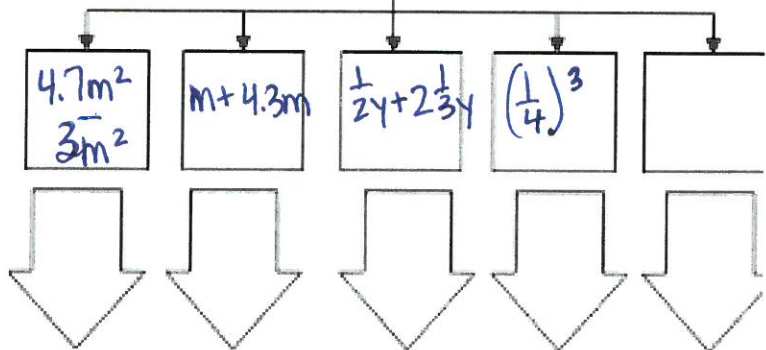
$$\frac{1}{2}w^2 + 0.3(w+4.1) + \frac{20w}{5} + w(w)$$

$$\frac{1}{2}w^2 + 0.3w + 1.23 + 4w + w^2$$



$$\frac{1}{2}w^2 + 4.3w + 1.23$$

$$m + \left(\frac{1}{4}\right)^3 + 4.7m^2 + \frac{1}{2}y - 3m^2 + 2\frac{1}{3}y + 4.3m$$



$$1.7m^2 + 5.3m + 2\frac{5}{6}y + \frac{1}{64}$$