

Name:

Date

: Hour:

Unit 2 Study Guide
Algebraic Expressions

Distributive Property

1) $5(2x - 4)$

$10x - 20$

2) $-2(y - 8)$

$-2y + 16$

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

$12x + 18 - 4$
 $12x + 14$

4) $\frac{1}{2}(2 - 8v) + 5$

$\frac{1}{2} \cdot 2 - \frac{8}{2}v + 5$
 $1 - 4v + 5$
 $-4v + 6$

5) $9 - (3z + 2)4$

$9 - 12z - 8$
 $-12z + 1$

6) $\frac{2}{3}(12y + 9) + 4$

$\frac{2}{3} \cdot 12y + \frac{2}{3} \cdot 9 + 4$
 $\frac{24}{3}y + \frac{18}{3} + 4$
 $8y + 6 + 4 = 8y + 10$
6) $-4(-5y + 3y + 2q)$
 $20y - 12y - 8q$

5) $3(-4x - 6x^3 + 2)$

$-12x - 18x^3 + 6$

6) $-4(-5y + 3y + 2q)$

$20y - 12y - 8q$

3- **Objective: I can write /Translate variable expressions by using Math Word Clues/ Key words**



Words that describe the following math operations...

Add

- more than
- Add
- combined
- increased by

Subtract

- less than
- subtract
- difference
- decreased by

Multiply

- double (2.) / twice
- product
- in all
- each

Divide

- divided by
- quotient
- shared equally
- split