

Name:

Period:

SCORE:

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## HW 3-1

**Int 1**

**Variables & Introduction to Expressions**

**Unit 3**

Evaluate each expression if  $a = -4$ ,  $b = 2$ ,  $x = 3$ , and  $y = -6$ .

1.  $y - a$

7.  $bx - y$

12.  $\frac{a+y}{b}$

2.  $y - b$

8.  $xy + ab$

13.  $5a$

3.  $x^2 + y$

9.  $\frac{y}{b}$

14.  $4b^3$

4.  $a^2 + b$

10.  $\frac{y}{x}$

15.  $\frac{(5+x)^2}{b}$

5.  $ab$

11.  $\frac{a}{b} + y$

16.  $6b - 3a$

6.  $xy^2$

Evaluate each expression if  $a = 5$ ,  $b = 3$ ,  $x = -2$ , and  $y = 4$ .

21.  $7a$

22.  $8b - 4a$

23.  $ax^2 + b$

24.  $x^3 + y^2$

**25.** You go to the store and want to purchase 3 packages of pencils and 2 erasers.

- What variable(s) do you want to use and what do they mean?
- Write an expression to model this situation.
- If a package of pencils cost \$1.25 and each eraser cost \$0.45, how much would you spend on pencils and erasers?