

**Alg 1**  
**0-1 Evaluating & Simplifying**

Name \_\_\_\_\_  
Date \_\_\_\_\_ **A#2-3**

**Goal:**

<p><b>Order of Operations</b></p> <p><b>G</b></p> <p><b>E</b></p> <p><b>M</b></p> <p><b>D</b></p> <p><b>A</b></p> <p><b>S</b></p>
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**Key Words:**

**Example 1:** Simplify the expression.

$$8(5 + 30 \div 5)$$

**Pair-Share**

$$8 + 3(4 + 3)$$

**Simplify each expression.**

1.  $4 + 6(8)$

2.  $\frac{4(8 - 2)}{3 + 9}$

3.  $4 \times 3^2 + 2$

4.  $40 \div 5(2)$

5.  $2.7 + 3.6 \times 4.5$

6.  $3[4(8 - 2) + 5]$

7.  $4 + 3(15 - 2^3)$

8.  $17 - [(3 + 2) \times 2]$

9.  $6 \times (3 + 2) \div 15$

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Example 2: **Evaluate each expression for  $a = 2$  and  $b = 6$ .**

$$2(7a - b)$$

**Pair-Share:**

$$\frac{5a + 2}{b}$$

**Evaluate each expression.**

10.  $\frac{a + 2b}{5}$  for  $a = 1$  and  $b = 2$

11.  $\frac{5m + n}{5}$  for  $m = 6$  and  $n = 15$

12.  $x + 3y^2$  for  $x = 3.4$  and  $y = 3$

13.  $7a - 4(b + 2)$  for  $a = 5$  and  $b = 2$

**More Practice**

**Simplify each expression.**

14.  $\frac{100 - 15}{9 + 8}$

15.  $\frac{2(3 + 4)}{7}$

16.  $\frac{3(4 + 12)}{2(7 - 3)}$

23.  $7(9 - 5)$

24.  $2(3^2) - 3(2)$

25.  $4 + 8 \div 2 + 6 \times 3$