

**Math 0406-Learning Outcome: Simplify using the order of operations**

**Practice Problems:**

1.  $-5^2 + (-4)^2$

2.  $\left(-\frac{2}{3}\right)^2$

3.  $2^3 \div 4 - 2(2 - 7)$

4.  $-2^2 - 5(4 - 6)^2$

5.  $9(-4) \div [2(8 - 5)^2]$

6.  $2^3 - 7 + 16 \div (-3 + 5)$

7.  $\frac{4+8}{2+1} - |3-1| + 2$

8.  $(5-8)^2 \div 3 \cdot 3$

9.  $8 - 4(2 - 3) + 3^3$

10.  $-3^2 \cdot \left(-\frac{2}{3}\right)^3$

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**Solutions:**

1. -9
2.  $\frac{4}{9}$
3. 12
4. -24
5. -2
6. 9
7. 4
8. 9
9. 39
10.  $\frac{8}{3}$