

Practice Worksheet
Content Standard: Language of Algebra
Student Learning Expectations: Order of Operations

1. What sentence helps you remember the order of operations? What do each of the letters stand for?

2. Simplify $^{-10 + (3 - 8) * 6} / .7 + 3^3 \div 9$.

3. Which operation is performed first when evaluating the following expression?
 $2^3(4^2 - 6) + 7 - 12 \div 4$

4. Which one of the following expressions is equivalent to $\frac{x + y}{z}$?

a. $\frac{x}{z} + y$

b. $\frac{x}{z} + \frac{y}{z}$

c. $x + (y \div z)$

d. $x + y \div z$

5. Simplify the following expression: $3 - 5(6 + 2)$

6. Simplify: $\left(\frac{4^2}{2}\right) - (9 - 2 * 4)$

7. Evaluate the expression $3p + 4(p + 1)^2 - 6$ for $p = 3$.

8. Find the value of the expression: $4 + 23 + (3 + 9) \div 4$.

9. In the equation $m = \frac{j^k}{(\sqrt{j})^k}$, if $j = 4$ and $k = 3$, what is m ?
