Order of Operations Additional Practice Problems

You will need a sheet of paper and pencil to complete this practice activity. For each problem, use the order of operations to determine the value for each of the following.

1) $2 + 3 \cdot (8)$

2) $\frac{1}{[5(8-8)]}$

3) $37 - 1 \cdot 6^2$

4) $98 \div 2 \div 7^2$

5) $(4^2 - 2 \cdot 4) - 2^3$

6) $61 - 22 + 4[3 \cdot (10) + 11]$

7) $121 - 4 \cdot [(4) \cdot (5) - 12] + (\frac{16}{2})$

8) $2^2 \cdot 3 + 2^3 (6 - 2) - (3 + 17) + 11(6)$

9) $\{\frac{[8\ (6 + 20\ )]}{8}\} + \{\frac{[3\ (6 + 1\ 6)]}{22}\}$

10) $\frac{[(1 + 16) - 3]}{7} + 5 \cdot 12$

11) $1^6 + 0^8 + 5^2 \cdot [(2 + 8)^3]$

12) $\dfrac{[5(8^{2}-9\cdot 6)]}{(2^{5}-7)+\dfrac{7^{2}-4^{2}}{2^{4}-5}}$

13) $6(2\cdot 8+3)-(5\cdot 2)+(\frac{8}{4})+(1+8)\cdot(1+11)$

14) $26-2\cdot[\frac{6+20}{13}]$

15) $(10+5)\cdot(10+5)-4\cdot(60-4)$

16) $[(6^{2}-1)/(2^{3}-3)]+\left[\dfrac{(4^{3}+2\cdot 3)}{(2\cdot 5)}\right]$

17) $\frac{51}{7}+7-2\cdot 5\,(\frac{12}{3})$

18) $(21-3)(6-1)(6)+4(6+3)$

Resource:

Ellis, W., & Burzynski, D. (2010, August 18). *Exponents, Roots, Factorization of Whole Numbers: Grouping Symbols and the Order of Operations*. Retrieved from: http://cnx.org/content/m34872/1.2/ .