

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) $\{\frac{[8(6+20)]}{8}\} + \{\frac{[3(6+16)]}{22}\}$

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

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

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

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

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

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

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

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

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

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/> .

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