Order of Operations Additional Practice Solutions

Now that you have completed the additional practice problems, check the solutions to see how well you did.

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

Solution: 48

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

Solution: Undefined

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

Solution: 1

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

Solution: 1

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

Solution: 0

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

Solution: 203

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

Solution: 97

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

Solution: 90

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

Solution: 29

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

Solution: 62

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

Solution: 25,001

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

Solution: 5

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

Solution: 214

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

Solution: 22

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

Solution: 1

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

Solution: 14

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

Solution: -30

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

Solution: 576

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/.