



# Intermediate Order of Operations Problem Set 1

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Simplify each problem to a single number or fraction (in simplest form).

1.  $5 + 5 \times 3 \times 4 \div 3 - 1$

2.  $4(3 - 5^2 \times 9 \div 3 - 1)$

3.  $(5^2 - 4^2)^2 + 3(27 \div 9)$

4.  $6 \div (9 \div 3^2 + 3)$

5.  $(505 \div 5 - 61) + (5 - 2^2)^4$

6.  $3(4[5(9^2 - 80)])$

7.  $6 + 5 \times 4 \div 4 - 7$

8.  $(60 \times 70) \div 42$

9.  $-(3 + 6) - (2 \times 5)$

10.  $(625 - 25^2) \times 2 \div 647 \times 786$



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11.  $(5 + 4)^2 \left(\frac{64}{24}\right)^{\frac{1}{2}}$

12.  $\frac{(6 \times 3 - 10)}{\frac{20^2}{100}}$

13.  $\frac{[(5^2 - 4^2)^2 + 3(27 \div 9)]}{[(60 \times 70) \div 42 \div 10]}$

14.  $\frac{1}{6} = 1 \div \frac{1}{6}$

15.  $\frac{7}{9+2}$

16.  $\frac{([2+3 \cdot 6] \div 10)^2}{\left(\frac{80}{2^2 \cdot 5}\right)}$

17.  $(2^2 \cdot 4 + 3^2)^{\frac{1}{2}}$

18.  $\frac{9^1 - 9}{5}$

19.  $\left(\frac{2^8}{126 \cdot 2 + \left(\frac{16}{8}\right)^2}\right)^{89}$

20.  $\left((5^3)^{\frac{1}{3}}\right)^3$