

Order of Operations on Natural Numbers

Part 1. Sample Problems

Simplify each of the following expressions by applying the order of operations agreement.

1. $2 \cdot 3^2 - (6^2 - 2 \cdot 5) \div 2 =$

2. $18 - 7 - 3 =$

3. $5^2 - 2(10 - 2^2) =$

4. $8^2 - 3^2 =$

5. $(8 - 3)^2 =$

6. $(3^3 - 4 \cdot 5 + 2)^2 =$

7. $\frac{3 + 2(20 - 3^2 - 5)}{3^2 - 2^2} + 4^1 =$

Part 2. Practice Problems

1. $2 \cdot 5^2 - (6 \cdot 5 - 3^2) \div 3 =$

2. $10^2 - 7^2 =$

3. $(10 - 7)^2 =$

4. $20 - 7 - 1 =$

5. $2^3 - (11 - 3^2)^2 =$

6. $\frac{5^2 - 3^2}{2^2} =$

7. $\frac{(5 - 3)^2}{2^2} =$

8. $120 \div 6 \cdot 2 =$

9. $((7 - 4)^2 - 5)^2 - 1 =$

10. $\frac{22 - 3^2 + 2(20 - 3^2 - 5)}{3^2 - 2^2} =$

11. $\frac{5 + (5^2 - 3^2)}{3^2 - 2 \cdot 1^8} =$

12. $30 - (2(15 - 2^3) - 2^2) =$

13. $4(3(2(2^2 - 1) + 1) - 1) + 5 =$

14. $\frac{2(3^3 - 4 \cdot 5) - 2^2}{4^2 - (3^2 + 2)} =$