

Name _____ Date _____

Evaluating Expressions

Parentheses, Brackets And Braces

Directions: Evaluate each of the following expressions. Solve what is inside parentheses first, brackets second and braces third. When performing operations inside each symbol you must use the order of operations.

1. $8 + \{16 - [2 + 4(1 + 2) + 1] - 2\}$

2. $\{3 + 4[2^2 + 2(6 - 4) + 1] - 1\}$

3. $2\{3[4(8 - 7) + 3^2] - 2\} + 4$

4. $2\{20 - 4^2 + 2[10 - (2 + 5) + 3] + 5 - 4\}$

5. $\{4[2(3 + 5) - 3] + 5\}$

6. $4\{20 - 2 \times 2[12 - (4 + 2 \times 2) + 1] + 1\}$

7. $\{8 + [10^2 - 5(6 + 4 \times 3)] - 3\}$

8. $9^2 \div \{15 - [2(9 + 6) - 20] + 4\}$

9. $2\{4 + 6 \div 2[9 - 2 \times 4 - (1 + 2) + 4] - 2\}$

10. $\{[5(9 - 6) - 3] + 12\} \div [2(10 - 6)]$

11. $[9(12 \div 4) + 1] - [3 + (5 + 9 \times 2) + 2]$

12. $2\{8[2(4 + 3)] + 1\}$

13. $[7(2 + 3) - 5] \div [5(12 - 7) - 10]$

14. $5 + \{2 + [3(9 - 7) \times 4] - 2\}$

15. $\{12 \div 4[6 - (4 + 2) + 3]\}$

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7

2. $\{3 + 4[2^2 + 2(6 - 4) + 1] - 1\}$

38

3. $2\{3[4(8 - 7) + 3^2] - 2\} + 4$

78

4. $2\{20 - 4^2 + 2[10 - (2 + 5) + 3] + 5 - 4\}$

34

5. $\{4[2(3 + 5) - 3] + 5\}$

57

6. $4\{20 - 2 \times 2[12 - (4 + 2 \times 2) + 1] + 1\}$

4

7. $\{8 + [10^2 - 5(6 + 4 \times 3)] - 3\}$

15

8. $9^2 \div \{15 - [2(9 + 6) - 20] + 4\}$

9

9. $2\{4 + 6 \div 2[9 - 2 \times 4 - (1 + 2) + 4] - 2\}$

16

10. $\{[5(9 - 6) - 3] + 12\} \div [2(10 - 6)]$

3

11. $[9(12 \div 4) + 1] - [3 + (5 + 9 \times 2) + 2]$

0

12. $2\{8[2(4 + 3)] + 1\}$

226

13. $[7(2 + 3) - 5] \div [5(12 - 7) - 10]$

2

14. $5 + \{2 + [3(9 - 7) \times 4] - 2\}$

29

15. $\{12 \div 4[6 - (4 + 2) + 3]\}$

9