Order of Operations   Name_____

Use grouping symbols and order of operations to simplify the following expressions:

1. $21 + (4 + 10)$

2. $16 + (4 \times 10)$

3. $20(3 + 7)$

4. $\dfrac{36 - 6}{12 + 3}$

5. $\dfrac{11 + 9}{2 \times 5}$

6. $[7 + (4 \cdot 2)] \times 2$

7. $[16 - (2 \cdot 3)] \times 3$

8. $[(7 \cdot 4) - (3 \cdot 6)] \div 2$

9. $[6 + (4 \cdot 2)] + [(7 \cdot 3) - 4]$

10. $\{[(3 \cdot 2) + 4] + 5\} \cdot 2$

11. $\{[(2 \cdot 3) + (7 \cdot 4)] + 2\} \cdot [(8 - 6) - (4 - 3)]$

12. $3\{5 + [(2 + 7) + 11]\}$

13. $[(16 - 4) \div (3 \times 2)] \div 3$

14. $6 + [12 - (4 \times 2)]$

15. $[8 + (2 \times 1)] \times 0$

16. $[40 \div (4 \times 5)] \div 2$

17. $64 - 5 \cdot 1 + 4 \div 8 + 5$

18. $48 + 3 \cdot 4 - 9 \cdot 2 \div 6$

19. $3^3 + (2 \times 5)^2$

20. $\dfrac{6^2 - 3^2}{6 - 3}$

21. $\left[\dfrac{12 + 8}{9 \times 6} - \dfrac{1}{54} \right] - \dfrac{2}{6}$

22. $(4 - 1)^2 + (12 - 3)^2 + (5 - 2)^3$

23. $6(5 - 3)^2$

24. $5\left[5 - (0 \times 3) \right]$

25. $4 \times 3 + 4 \times 5 \div 4 - 1$