

INTRODUCTION TO ORDER OF OPERATIONS - CLASSWORK

1. List the Order of Operations: PLEASE EXCUSE MY DEAR AUNT SALLY!
 - a. Get one number inside Parentheses or other grouping symbols--such as (), [], --, | |, etc., working from the inside to the outside if necessary.
 - b. Evaluate Exponents.
 - c. Multiply and/or Divide from Left to Right.
 - d. Add and/or Subtract from Left to Right.

Evaluate the given expression by following the order of operations.

2. $6(2) + 4$

3. $5 + 3 \cdot 2$

4. $15 - 4 \cdot 3$

5. $8 - 2(3) + 1$

6. $36 \div (3 \cdot 2)$

7. $20 \div 5(4)$

8. $28 - 4(5 - 2)$

9. $(30 - 10)(6 - 2)$

10. $36 \div 12 \div 3$

11. $| 7 - 2 |$

12. $\frac{10 + 6(3)}{4(2) + 6}$

13. $20 - 15 \div 5 - 3$

$$14. 6 + 8 - 8 \div 2$$

$$15. 12 - 2[8 - 2(5 - 2)]$$

$$16. |24 - 4|$$

$$17. \frac{10(2) + 2(4)}{2(3) + 1}$$

$$18. 24 - 2 \cdot 6 + 5$$

$$19. 18 \div (2 + 1) \cdot 3$$

$$20. 30 - 3[10 - 2(4 - 2)]$$

$$21. 18 - 12 \div 3 \cdot 4 + 1$$

$$22. 3[2(9-1) - 12] + 5$$

$$23. 25 - 3[2(5-1) - 6]$$

$$24. \frac{5(2) - 10}{9 - 2}$$

$$25. \frac{12 - 2 + 3}{(12 - 2) - 10}$$

ORDER OF OPERATIONS – HOMEWORK

NAME _____

CLASS TIME _____

1. List the Order of Operations:

a.

b.

c.

d.

Evaluate the given expression by following the order of operations.

2. $5 + 4(6)$

3. $2 \cdot 8 + 3$

4. $20 - 5 \cdot 3$

5. $8 + 2(3) - 1$

6. $30 \div (5 \cdot 2)$

7. $30 \div 5(2)$

8. $30 - 5(4 - 2)$

9. $(30 - 5)(4 - 2)$

$$10. 48 \div 12 \div 4$$

$$11. | 20 - 12 |$$

$$12. \frac{12 + 6(3)}{6 + 3(3)}$$

$$13. 8 - 2[9 - 3(5 - 3)]$$

$$14. 7 + 10 - 10 \div 2$$

$$15. 12 - 8 \div 2 + 2$$

$$16. 18 \div 3 \cdot 2 + 1$$

$$17. 10 - 2 + 3$$

$$18. \frac{15 - 5 + 2}{15 - 3 \cdot 5}$$

$$19. \frac{3(4) - 12}{12 \div 3 \cdot 4}$$

Answers: 2) 29 4) 5 6) 3 8) 20 10) 1 12) 2 14) 12 16) 13 18) undefined