Name:_____ Date:_____

Order of Operations – PEMDAS

Evaluate problems in the following order :

1) P - Parentheses
2) E - Exponents (Powers and Square Roots)
3) MD - Multiplication and Division (Left to Right)
4) AS - Addition and Subtraction (Left to Right)

Solve each expression by following the order of operations rules.

1. $(12 \div 3) \times 10 \div 2 + (5 \times 6)$
2. $3^2 + (2 + 12 \times 2) - 16 \div 4$
3. $4\,(15 \div 3) + (6 \times 3) - 2^2$
4. $9^2 \times 2 - 20$
5. $13 \times 2 + 25 - 3 + 15 - 3$
6. $(10 - 7) + (2 \times 12 \div 4)$
7. $64 - 8 + 12 \times 2 + 9$
8. $12^2 - 23 + (9 \times 3)$
9. $4^3 - 3^3$
10. $19 + 5 - 4 \times 6 + 8$

Name:_____ Date:_____

Order of Operations: PEMDAS

Solve each expression by following the order of operations rules.

1. $(12 \div 3) \times 10 \div 2 + (5 \times 6) = 50$

2. $3^2 + (2 + 12 \times 2) - 16 \div 4 = 31$

3. $4\,(15 \div 3) + (6 \times 3) - 2^2 = 34$

4. $9^2 \times 2 - 20 = 142$

5. $13 \times 2 + 25 - 3 + 15 - 3 = 60$

6. $(10 - 7) + (2 \times 12 \div 4) = 9$

7. $64 - 8 + 12 \times 2 + 9 = 89$

8. $12^2 - 23 + (9 \times 3) = 148$

9. $4^3 - 3^3 = 37$

10. $19 + 5 - 4 \times 6 + 8 = 8$

Name:_____ Date:_____

Order of Operations

Simplify each expression using right order of operations.

1. $(3 + 6) \times 2 + 6$

2. $3^2 + 12 \times 2 - 4$

3. $15 \div 3 + (6 \times 2) - 1$

4. $4^2 \times (12 - 7)$

5. $3 \times 9 + 18 \div 3 + 15$

6. $(7 - 2) + (7 \times 15 \div 5)$

7. $64 - 11 \times 2 + 7$

8. $6^2 - 19 + (6 \times 3)$

9. $5^3 - 7^2 + 2^2$

10. $13 + 7 \times 6 \div 3 - 6$

11. $12 + (4 \times 2) + 21 \div 3$

12. $18 \div 3 + 5 \times 2 - 3$

13. $25 - 9 \div 3 \times 2 + 11$

14. $13 - 5 \times 3 + 12 \div 3$

15. $9 + (8 \times 3^2 - 13)$

16. $5 \times 2 - 3 + 18 \div 6$

17. $4^2 + 4 \times 5 - 2^3$

18. $5^2 + (19 - 6 \times 3)$

Name:_____ Date:_____

Order of Operations

Simplify each expression using right order of operations.

1. $(3 + 6) \times 2 + 6 = 24$

2. $3^2 + 12 \times 2 - 4 = 29$

3. $15 \div 3 + (6 \times 2) - 1 = 16$

4. $4^2 \times (12 - 7) = 80$

5. $3 \times 9 + 18 \div 3 + 15 = 48$

6. $(7 - 2) + (7 \times 15 \div 5) = 26$

7. $64 - 11 \times 2 + 7 = 49$

8. $6^2 - 19 + (6 \times 3) = 35$

9. $5^3 - 7^2 + 2^2 = 80$

10. $13 + 7 \times 6 \div 3 - 6 = 21$

11. $12 + (4 \times 2) + 21 \div 3 = 27$

12. $18 \div 3 + 5 \times 2 - 3 = 13$

13. $25 - 9 \div 3 \times 2 + 11 = 30$

14. $13 - 5 \times 3 + 12 \div 3 = 2$

15. $9 + (8 \times 3^2 - 13) = 68$

16. $5 \times 2 - 3 + 18 \div 6 = 10$

17. $4^2 + 4 \times 5 - 2^3 = 28$

18. $5^2 + (19 - 6 \times 3) = 26$

Name: _____ Date: _____

Order of Operations

Solve each expression by following the order of operations rules.

1. $16 - 3 \times 4 + 7$

2. $8 + (11 - 2 - 3)$

3. $5 + 6 - (8 - 6)$

4. $12 \div 2 - 3 \times 2$

5. $4 \times 6 - 2 \times 3$

6. $9 - 8 \div 8 \times 5$

7. $2 \times 8 + 8 - 8$

8. $5 - 2 + 4 \times 3$

9. $11 + 4 - (8 - 5)$

10. $4 + 10 - (5 + 7)$

11. $8 \times (7 - 7) \div 9$

12. $(5 - 8 \div 8) \times 4$

13. $6 + 18 \div 6 - 1$

14. $6 + 2 - 4 \div 2$

Name: _____ Date: _____

Order of Operations

Solve each expression by following the order of operations rules.

1. $16 - 3 \times 4 + 7 = 11$
2. $8 + (11 - 2 - 3) = 14$
3. $5 + 6 - (8 - 6) = 9$
4. $12 \div 2 - 3 \times 2 = 0$
5. $4 \times 6 - 2 \times 3 = 18$
6. $9 - 8 \div 8 \times 5 = 4$
7. $2 \times 8 + 8 - 8 = 16$
8. $5 - 2 + 4 \times 3 = 15$
9. $11 + 4 - (8 - 5) = 12$
10. $4 + 10 - (5 + 7) = 2$
11. $8 \times (7 - 7) \div 9 = 0$
12. $(5 - 8 \div 8) \times 4 = 16$
13. $6 + 18 \div 6 - 1 = 8$
14. $6 + 2 - 4 \div 2 = 6$