

NAME _____

DATE _____

PERIOD _____

**PRE ALGEBRA – CHAPTER 1
ORDER OF OPERATIONS**

Directions: Find the answer using order of operations. Show each step.

Example:

$$6 \times (2 + 7 \times 3^2)^2$$

$$6 \times (2 + 7 \times 9)^2 = 6 \times (2 + 63)^2 = 6 \times 65^2 = 6 \times 4,225 = 25,350$$

1. $8^2 - 6 \times 3$

2. $6^2 + 9 \div 3$

3. $7^3 - 12 \times 3$

4. $(6 + 9)^2 - 2^3$

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

6. $(7 + 2)^3 - 3^3$

7. $(12^2 - 8)^2 + 7$

8. $(7 - 5)^2 + (8 + 3)^3$

9. $(19 - 2)^2 - 3 \times 5$

10. $7 \times 5^2 + (8^2 - 3)^2$

11. $(12 \div 4)^3 + 9 + 7$

12. $7 - 5 \times (28 - 2^4)^2$

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Directions: Find the answer using order of operations. Show each step.

1. $12^2 - 5 \times 4$

2. $9^2 + 40 \div 8$

3. $30^2 - 27 + 3$

4. $(16 + 3)^2 - 53$

5. $(19 - 9)^3 + 8^3$

6. $(7 + 5)^2 - 4^2$

7. $(18^2 - 25)^2 + 3$

8. $(8 - 2)^2 + (6 + 2)^3$

9. $(19 - 12)^2 - 2 \times 8$

10. $(12 \times 3)^2 + (7^2 - 5)^2$

11. $(64 \div 16)^3 + 8 + 6$

12. $9 + 3 \times (54 - 3^3)^2$