Order of Operations: Exponents and Brackets

Name: _____ Date: _____

Inside out: ( ), then [ ]. Inside each group: exponents, multiply/divide, add/subtract.

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

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Answer Key

Inside out: ( ), then [ ]. Inside each group: exponents, multiply/divide, add/subtract.

1. $[(7 + 3^2) - 9] + 2 =$ **9**
2. $8 \times [4^2 - (5 + 6)] =$ **40**
3. $5 \times [6^2 + (4 - 2)] =$ **190**
4. $(8 - 5)^2 + 4^2 =$ **25**
5. $4 + [6^2 \div (7 \div 7)] =$ **40**
6. $[6^2 + (9 \times 4)] + 4 =$ **76**
7. $7 \times [3^2 + (4 + 3)] =$ **112**
8. $[(9 \times 3^2) + 3] \times 2 =$ **168**
9. $[(9 + 3^2) \div 6] \times 4 =$ **12**
10. $[(2 \times 2)^2 + 8] \times 5 =$ **120**
11. $[(3 + 4)^2 + 6] \times 2 =$ **110**
12. $5^2 \times [(5 + 6) - 7] =$ **100**
13. $[3^2 \times (9 + 3)] + 6 =$ **114**
14. $[4^2 + (6 - 4)] - 3 =$ **15**
15. $9 - [4^2 - (3 \times 4)] =$ **5**
16. $[6^2 - (4 \times 5)] + 7 =$ **23**