Order of Operations with Exponents

Name: _____

Parentheses, then exponents, then multiply and divide, then add and subtract.

1. $6^2 + 18 \div 3 =$

2. $(2 + 4)^2 + 7 =$

3. $4 \times 7 - 2^2 =$

4. $9^2 + 24 \div 8 =$

5. $9^2 - 21 \div 3 =$

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

7. $2^2 + 12 \div 2 =$

8. $7^2 + 9 \times 12 =$

9. $(5 + 2)^2 - 16 =$

10. $24 \div 4 + 4^2 =$

11. $30 \div 5 + 2^2 =$

12. $(4 + 1)^2 - 17 =$

13. $(4 + 4)^2 - 2 =$

14. $(3 + 3)^2 - 3 =$

Order of Operations with Exponents (Answer Key)

Parentheses, then exponents, then multiply and divide, then add and subtract.

1. **$6^2 + 18 \div 3 =$**
   = 36 + 18 ÷ 3
   = 36 + 6
   = 42

2. **$(2 + 4)^2 + 7 =$**
   = 6^2 + 7
   = 36 + 7
   = 43

3. **$4 \times 7 - 2^2 =$**
   = 4 × 7 – 4
   = 28 – 4
   = 24

4. **$9^2 + 24 \div 8 =$**
   = 81 + 24 ÷ 8
   = 81 + 3
   = 84

5. **$9^2 - 21 \div 3 =$**
   = 81 – 21 ÷ 3
   = 81 – 7
   = 74

6. **$(4 + 3)^2 - 2 =$**
   = 7^2 – 2
   = 49 – 2
   = 47

7. **$2^2 + 12 \div 2 =$**
   = 4 + 12 ÷ 2
   = 4 + 6
   = 10

8. **$7^2 + 9 \times 12 =$**
   = 49 + 9 × 12
   = 49 + 108
   = 157

9. **$(5 + 2)^2 - 16 =$**
   = 7^2 – 16
   = 49 – 16
   = 33

10. **$24 \div 4 + 4^2 =$**
    = 24 ÷ 4 + 16
    = 6 + 16
    = 22

11. **$30 \div 5 + 2^2 =$**
    = 30 ÷ 5 + 4
    = 6 + 4
    = 10

12. **$(4 + 1)^2 - 17 =$**
    = 5^2 – 17
    = 25 – 17
    = 8

13. **$(4 + 4)^2 - 2 =$**
    = 8^2 – 2
    = 64 – 2
    = 62

14. **$(3 + 3)^2 - 3 =$**
    = 6^2 – 3
    = 36 – 3
    = 33