

1-2 Study Guide and Intervention

Order of Operations

Evaluate Numerical Expressions Numerical expressions often contain more than one operation. To evaluate them, use the rules for order of operations shown below.

Order of Operations	<p>Step 1 Evaluate expressions inside grouping symbols.</p> <p>Step 2 Evaluate all powers.</p> <p>Step 3 Do all multiplication and/or division from left to right.</p> <p>Step 4 Do all addition and/or subtraction from left to right.</p>
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Example 1: Evaluate each expression.

a. 3^4
 $3^4 = 3 \cdot 3 \cdot 3 \cdot 3$ Use 3 as a factor 4 times.
 $= 81$ Multiply.

b. 6^3
 $6^3 = 6 \cdot 6 \cdot 6$ Use 6 as a factor 3 times.
 $= 216$ Multiply.

Example 2: Evaluate each expression.

a. $3[2 + (12 \div 3)^2]$
 $3[2 + (12 \div 3)^2] = 3(2 + 4^2)$ Divide 12 by 3.
 $= 3(2 + 16)$ Find 4 squared.
 $= 3(18)$ Add 2 and 16.
 $= 54$ Multiply 3 and 18.

b. $\frac{3 + 2^2}{4^2 - 3}$
 $\frac{3 + 2^2}{4^2 - 3} = \frac{3 + 4}{16 - 3}$ Evaluate power in numerator.
 $= \frac{11}{13}$ Add 3 and 4 in the numerator.
 $= \frac{11}{16 - 3}$ Evaluate power in denominator.
 $= \frac{11}{13}$ Multiply.

Exercises

Evaluate each expression.

1. 5^2
4. 12^2
7. $(8 - 4) \cdot 2$
10. $15 - 12 \div 4$
13. $3^2 \div 3 + 2^2 \cdot 7 - 20 \div 5$
16. $\frac{2 \cdot 4^2 - 8 \cdot 2}{(8 \div 2) \cdot 2}$

2. 3^3
5. 8^0
8. $(12 + 4) \cdot 6$
11. $12(20 - 17) - 3 \cdot 6$
14. $\frac{4 + 2^2}{12 \div 4}$
17. $\frac{4(3^2) - 4 \cdot 2}{4(4 \cdot 3 + 2)}$

3. 10^4
6. 2^8
9. $10 + 8 \cdot 1$
12. $24 \div 3 \cdot 2 - 3^2$
15. $250 \div [5(3 \cdot 7 + 4)]$
18. $\frac{3^2 - 3}{2 \cdot (3) + 2(3)}$

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