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Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

## 1-1 Study Guide and Intervention

### Expressions and Formulas

#### Order of Operations

**Order of Operations**

- Simplify the expressions inside grouping symbols.
- Evaluate all powers.
- Do all multiplication and division from left to right.
- Do all addition and subtraction from left to right.

**Example 1** Evaluate  $(18 - (6 + 4)) \cdot 2$ .

$$(18 - (6 + 4)) \cdot 2 = (18 - 10) \cdot 2$$

$$= 8 \cdot 2$$

$$= 16$$

**Example 2** Evaluate  $3x^2 + xy - 6$  if  $x = 3$  and  $y = 6$ .

Replace each variable with the given value.

$$3x^2 + xy - 6 = 3 \cdot (3)^2 + (3) \cdot (6) - 6$$

$$= 3 \cdot (9) + 18 - 6$$

$$= 27 + 18 - 6$$

$$= 39$$

**Check Your Understanding**

Find the value of each expression.

1. $14 + (6 - 2)$	2. $11 - (3 + 2)^2$	3. $2 + (4 - 2)^2 - 6$
4. $9(3^2 + 6)$	5. $(5 + 2)^2 - 5^2$	6. $5^2 + \frac{1}{2} + 18 - 2$
7. $\frac{16 + 3^2 + 4}{1 - 2^2}$	8. $(7 - 3)^2 + 6^2$	9. $20 - 2^2 + 6$
10. $12 + 6 - 3 - 2(4)$	11. $14 - (8 - 20 \div 2)$	12. $6(7) + 4 - 4 - 5$
13. $(4)^2 - 8 - 3(2)$	14. $\frac{6 + 4 + 2}{4 + 6 + 1}$	15. $\frac{6 + 3 + 3 + 15}{8 - 2}$

Evaluate each expression if  $a = 8$ ,  $b = -5$ ,  $c = 4$ , and  $d = -\frac{1}{2}$ .

16. $\frac{ab}{d}$	17. $5(6c - 8b + 10d)$	18. $\frac{c^2 - 1}{b - d}$
19. $ac - bd$	20. $(b - c)^2 + 4a$	21. $\frac{a}{d} + 6b - 5c$
22. $a\left(\frac{b}{c}\right) - b$	23. $cd + \frac{a}{b}$	24. $d(a + c)$
25. $a + b - c$	26. $b - c + 4 - d$	27. $\frac{a}{b} - \frac{c}{d} - d$

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**Study Guide And Intervention Geometry Answer Key**