

Order of Operations and Algebraic Expressions Fall 2010

Always do everything **DOPE** parentheses first,
Then do all exponents,
Then all multiplication and division **FROM LEFT TO RIGHT**,
Finally, do all addition and subtraction **FROM LEFT TO RIGHT**.

- Suppose that there is a multiplication and no addition operation in a problem. Which operation is done first, and why?
- Suppose there is a subtraction and no addition operation in a problem. Which operation is done first, and why?
- Explain why some students think $3 + 2 \cdot 7$ equals thirty-five, which is incorrect. What is the correct answer?

Show each step for each problem below:

- | | | |
|----------------------|---------------------------------|-----------------------------|
| 4. $3 + 3 \cdot 2$ | 5. $15 - 2^2 + 3$ | 6. $15 + 3 - 4 + 2 + 7 - 9$ |
| 7. $4(9 - 3 - 4)$ | 8. $34 + 4 \cdot 2$ | 9. $10 - (4 + 2)$ |
| 10. $12 - 3(7 - 5)$ | 12. $5 - 4 + 2 - 3 + 2 \cdot 3$ | 13. $5 - 9 + 3 + 5$ |
| 11. $2 + 3(10 - 2)$ | 14. $-10 + 30 - 6 - 5$ | 15. $-8 - (-4 - 2)$ |
| 16. $3^2 - 4(7 - 2)$ | 17. $2 - 3 + 3 - 2$ | 18. $2 + 3 - 3 + 2$ |

For each problem described below, show an algebraic expression that represents the problem, and calculate the solution:

- | | | |
|--|--|--|
| 19. Peter multiplies nine and three together, and then adds seven. | 20. Alonso divides 20 by 2, and then subtracts 8. | 21. Maria adds 20 and 10, and then multiplies that by 7. |
| 22. Kelly adds the 4 and the 2, and then multiplies that by 3. | 23. Sam subtracts 8 from 20, and then divides that by 7. | 24. Nidia multiplies 2 by 4, divides 8 by 2, and then adds those results together. |

25. Substitute $a = 2$, $b = 6$, and $c = 4$ into each of the following expressions, and then evaluate (simplify) using the order of operations:

a) a^2	b) $-4ac$	c) $3bc$	d) $b^2 - 4ac$	e) $-4ac$	f) $b^2 - 4ac$	g) $\sqrt{b^2 - 4ac}$
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26. Copy the chart and fill in the missing entries:

a) $1^2 =$	b) $1^3 =$	c) $1^4 =$	d) $1^5 =$	e) $1^6 =$	f) $1^{100} =$
g) $2^2 =$	h) $2^3 =$	i) $2^4 =$	j) $2^5 =$	k) $2^6 =$	l) $2^{100} =$
m) $3^2 =$	n) $3^3 =$	o) $3^4 =$	p) $4^2 =$	q) $4^3 =$	r) $3^5 =$
s) $2^5 =$	t) $5^2 =$	u) $5^3 =$	v) $7^2 =$	w) $3^3 =$	x) $9^2 =$

27. MONEY: Andrei starts out with \$100. She buys a dress for \$25, and then finds \$5 on the sidewalk. Her mom gives her \$5, and then Andrei buys books for \$12. How much money will Andrei have now? Explain your reasoning.

28. Translating: Write each verbal statement as an expression, equation, or inequality:

- | | | | |
|---|--------------------------------|-----------------------------|---|
| a) The quotient of 10 and a number is increased by 7. | b) Four less than one hundred. | c) A number decreased by 17 | d) Ten less than a product of a number and six. |
|---|--------------------------------|-----------------------------|---|

29. Writing Formulas: Write a formula for each of the following situations. Pick variables to represent the unknown quantities.

- | | | |
|--|---|---|
| a) Sam, Mikey's brother, is four years older than Mikey. | b) If you multiply the dog's age by seven, and add three, you will get the equivalent number of years for a person. | c) Mr. Rosend is 40 years older than Marie. |
|--|---|---|

30. Multiple Choice: Which formula best represents the idea, "Mr. Rosend weighs 110 pounds more than his dog, Tucker?"

- | | | | |
|------------------|------------------|------------------|------------------|
| a) $j = 125 + r$ | b) $r = 125 + j$ | c) $r = j + 110$ | d) $r = j + 125$ |
|------------------|------------------|------------------|------------------|

- 31-40. As ordered: **mediums only**: Using the numbers 1, 2, 3, and 4, (each exactly once) and using parentheses, exponents, multiplication, division, addition, subtraction, and square roots, create the numbers 10-40. For example, to get the number 51, you could do $31 = 3 \cdot 4 + 1 + 2$ or $31 = \frac{4^3}{2} + 1$.

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Table of Contents Reading Guide 2010 Operations Rules

1. Understanding the eBook Reading Guide 2010 Operations Rules
 - The Rise of Digital Reading Reading Guide 2010 Operations Rules
 - Advantages of eBooks Over Traditional Books
2. Identifying Reading Guide 2010 Operations Rules
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reading Guide 2010 Operations Rules
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reading Guide 2010 Operations Rules
 - Personalized Recommendations
 - Reading Guide 2010 Operations Rules User Reviews and Ratings
 - Reading Guide 2010 Operations Rules and Bestseller Lists
5. Accessing Reading Guide 2010 Operations Rules Free and Paid eBooks

- Reading Guide 2010 Operations Rules Public Domain eBooks
- Reading Guide 2010 Operations Rules eBook Subscription Services
- Reading Guide 2010 Operations Rules Budget-Friendly Options
- 6. Navigating Reading Guide 2010 Operations Rules eBook Formats
 - ePub, PDF, MOBI, and More
 - Reading Guide 2010 Operations Rules Compatibility with Devices
 - Reading Guide 2010 Operations Rules Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reading Guide 2010 Operations Rules
 - Highlighting and Note-Taking Reading Guide 2010 Operations Rules
 - Interactive Elements Reading Guide 2010 Operations Rules
- 8. Staying Engaged with Reading Guide 2010 Operations Rules
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reading Guide 2010 Operations Rules
- 9. Balancing eBooks and Physical Books Reading Guide 2010 Operations Rules
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reading Guide 2010 Operations Rules
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Reading Guide 2010 Operations Rules
 - Setting Reading Goals Reading Guide 2010 Operations Rules
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reading Guide 2010 Operations Rules
 - Fact-Checking eBook Content of Reading Guide 2010 Operations Rules
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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