

Algebra 1 Review First Semester

- What is the value of $2 + 2$? Some people say it's zero, and some people say it's one. Explain what is correct.
- Margaret is going shopping. She puts three cytophones, two yams, and five yiffles (stuffed animals) in her cart. Then she puts in four more cytophones and takes out two yams. What is left in her cart at the end?
- Simplify each expression below. For the first one, it may help to think of Margaret's shopping excursion.
 - $3x + 2y + 5z + 4x - 3z$
 - $3x + 5 - 7x + 12$
 - $4x + 3y + 10 - 3x + 7y + 18$
- Determine all unknown sides in each figure. Then find the area.
 - 
 - 
- For each equation below, show an order of operations ladder, solve for the variable, and then show a check.
 - $3x + 4 = 28$
 - $\frac{x + 7}{3} = 8$
 - Multiply both sides of this equation by the fraction $\frac{3}{3}$.
 - Multiply both sides of this equation by the reciprocal of the fraction $\frac{3}{3}$.
 - $\frac{3}{3}x + 3 = 28$
 - $\frac{3}{3}x = 28$
- Multiple choice: Dylan has three cytophones and four yams, but he owes his friend ten dollars. Which expression best represents his situation? (A) $3x + 4y + 10$ (B) $3x + 4y - 10$
- Multiple choice: Dylan's rich uncle comes along and decides to triple Dylan's fortune, the better or the worse. Which expression best represents his new situation? (A) $9x + 12y + 30$ (B) $9x + 12y - 30$
- Simplify each of the following using the distributive property. For the first one, it may help to think of Dylan and his situation.
 - $3(3x + 4y + 10)$
 - $-2(3x + 5y + 7)$
 - $3(4x + 5y + 7)$
 - $7(2x + 5)$
 - $3(x + 7)$
- Describe, in words, when to use the "cross-multiplication" or "division" method to solve equations.
- Solve each proportion:
 - $\frac{3x}{15} = \frac{14}{35}$
 - $\frac{x + 3}{-9} = \frac{2x - 5}{3}$ (Hint: don't forget parentheses!)
 - $\frac{x + 7}{8} = 3$ (Hint: write 3 as a fraction.)
- Multiple choice: Which of the following expressions corresponds to the expression $5 \cdot x \cdot x \cdot x \cdot x$? (A) $3x^4$ (B) $(3x)^4$
- Multiple choice: Which of the following expressions corresponds to the expression $3x \cdot 3x \cdot 3x \cdot 3x$? (A) $3x^4$ (B) $(3x)^4$
- Algebraic hospital: Dilano simplified the expression $\frac{8xy^2}{3x^2y^2}$ by writing it out the long way, and then his teacher marked it incorrect. Explain what he did wrong, and then write it correctly. Here is Dilano's (incorrect) solution:

$$\frac{8xy^2}{3x^2y^2} = \frac{8 \cdot x \cdot y \cdot y}{3 \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y} = \frac{8 \cdot x \cdot y \cdot y}{3 \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y} = 2x^2y^2$$

Nd Semester Algebra 1 Review

Oscar Krisen Buros



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Documents Accompanying the Journal of the House Michigan. Legislature,1892 **Algebra 1** Collins Publishers Staff,William Collins,Gilbert J. Cuevas,Russell J. Foster,Gordon Staff,Moore-Harris,Rath,William L. Swart,Winters,1998

Report Michigan. Department of Public Instruction,1892 **Annual Report of the Board of Trustees of the Illinois Industrial University** Illinois Industrial University. Board of Trustees,1875 **Annual Report of the Board of Trustees of the Illinois Industrial University** University of Illinois (Urbana-Champaign campus),1875 **Report of the Board of Trustees** University of Illinois (Urbana-Champaign campus),1875 *SEVENTH ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE ILLINOIS INDUSTRIAL UNIVERSITY, FOR 1873-4 WITH ADDRESSES AT THE DEDICATION OF THE NEW BUILDING, INDUSTRIALS TATISTICS, ETC. ,1875* **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as

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