

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 cyphonses, two yams, and five yiffies (stuffed animals) in her cart. Then she puts in four more cyphonses 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 cyphonses and four yams, but he owes his friend two dollars. Which expression best represents his situation? (A) $3x + 4y + 10$ (B) $3x + 4y + 12$
- 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) $9x + 12y + 10$ (B) $9x + 12y + 12$
- 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:

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

Algebra 1 Semester 1 Answer Key

**David Greenwood, Bryn
Humberstone, Justin Robinson, Jenny
Goodman, Jenny Vaughan, Franca Frank**

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Engineering Mathematics S. S. Sastry, 2009 The subject matter of the book has been organized in two parts covering the syllabi of both first and second semester Preface General Register University of Michigan, 1929 Announcements for the following year included in some vols *The Algebra Miracle: The True Story of a High-Poverty School's Triumph in the Age of Accountability* Stuart Alan Singer, 2012-02-21 A miracle is defined as a highly improbable or extraordinary accomplishment The story of the Algebra program at JEB Stuart High School in Fairfax Virginia qualifies for such a designation Over a period of fifteen years a series of ambitious no cost innovations which challenged the prevailing status quo in math education led to a set of academic accomplishments that were indeed improbable and extraordinary This miracle was achieved by a high poverty ethnically diverse student body that was unique at the time but is now representative of schools found throughout the U S For everyone touched by education from parents and students to teachers and administrators The Algebra Miracle will provide insights into the complexity of finding a low cost formula for academic success in the tight budgetary times of the 21st century This story serves as a model of what can be accomplished when a dedicated school staff commits its time energy and creativity to the needs of their students

Problem Solving in Mathematics Education Torsten Fritzlar, Daiela Assmus, Kerstin Bräuning, Ana Kuzle, Benjamin Rott, 2016-06-30 From 3rd to 5th of September 2015 the 17th international ProMath conference Problem Solving in Mathematics Education took place at the Faculty of Education of the Martin Luther University Halle Wittenberg Germany For the first time it was combined with the annual meeting of the working group Problem Solving of the Society of Didactics of Mathematics This book contains 20 peer reviewed articles of researchers from five European countries The topics of the papers evolved around different areas of learning and problem solving There are some theoretical papers on problem oriented mathematics instruction and specific aspects of problem solving and creativity as well as reports on detailed studies of problem solving processes of pupils and preservice teachers Authors also present experiences with real problem solving instruction in different countries considerations and teaching experiments on didactic concepts to foster pupils problem solving abilities and they describe mathematically rich problem fields and their potentials for mathematical investigations in class ProMath is a group of

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web the diagram below shows the wiring for a single phase motor and the path through the contactor and overload please see the attached diagram for guidance this diagram illustrates possible wiring using a tesys d lc1d contactor and tesys lrd overload lrd and stop control is assumed to be by operation of the stop button on the overload

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web motor wiring diagram 904983 7 lead dual voltage 115 230 single phase with thermal protection clockwise rotation facing shaft as shown interchange leads t5 t8 for counter clockwise rotation each lead may have one or more cables comprising that lead in such case each cable will be marked with the appropriate lead number

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