

Algebra 1 Review: First Semester

1. "What is the value of $2 + 2^2$?" Some people say it's 4 , and some people say it's 8 . Explain what is correct.

2. Margaret is going shopping. She puts three toy bicycles, three phones, and three action figures in her cart. Then she puts an extra toy bicycle and takes out two phones. What is left in her cart at the end?

3. Simplify each expression below. For the first one, it may help to think of Margaret's shopping situation.
 a) $3x + 2y + 3z + 4x - 2z$ b) $3x + 3 - 2x + 12$ c) $4x - 3y + 10 - 3x + 7y - 10$

4. Determine all unknown values in each figure. Then find the area.
 a)  b) 

5. For each equation below, choose an order of operations: addition, subtraction, multiplication, and then division or division. a) Multiplication then addition of the equation $\frac{3}{2}x + 3 = 21$ b) Multiplication then division of the equation $\frac{3}{2}x - 3 = 21$
 c) $3x - 3 = 21$ d) $\frac{3}{2}x - 3 = 21$
 e) Multiplication by the fractions $\frac{3}{2}$ f) Multiplication by the fractions $\frac{2}{3}$

6. Multiple choice: Dylan has three toy bicycles and three phones. Total cost over the three items is \$12. Which expression best represents his cost? a) $3x + 4y = 12$ b) $3x + 4y = 32$

7. Multiple choice: Dylan's mom wants to wash and dry his three Dylan's T-shirts, one T-shirt at the time. Which expression best represents his mom's cost? a) $9x + 12y = 30$ b) $9x + 12y = 30$

8. Simplify each of the following using the distributive property. For the first one, it may help to think of Dylan and his clothes.
 a) $2(3x + 4y - 10)$ b) $-2(3x + 2y - 7)$ c) $2(4x + 3y + 7)$ d) $7(2x - 5)$ e) $3(3x + 2)$

9. Determine, in words, when to use the "cross-multiplication" or "eliminate" method to solve equations.

10. Solve each proportion.
 a) $\frac{2x}{3} = \frac{14}{5}$ b) $\frac{x+3}{2x-3} = \frac{2x+3}{x}$ What don't forget parentheses? c) $\frac{2x+7}{3} = 13$ What makes it an equation?

11. Multiple choice: Which of the following expressions corresponds to the expression $2 - 2x - 3x + 4x^2$?
 a) $2x^2$ b) $(2x)^2$

12. Multiple choice: Which of the following expressions corresponds to the expression $2x - 3x + 3x - 4x^2$?
 a) $2x^2$ b) $(2x)^2$

13. Algebraic Simplification: Dylan simplified the expression $\frac{8x^2y^3}{2x^2y^2}$ by writing it out the long way, and then his teacher marked it incorrect. Explain what he did wrong, and then write it correctly. There is Dylan's incorrect solution:

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

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

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