

5. $3x - 4(x + 1) = 5x + 14$

6. $2x + 8(x - 5) = -5(x + 8)$

AN OUNCE OF ALGEBRA IS WORTH A TON OF VERBAL ARGUMENT

JOHN B S HALDANE

Day 7: Solving Proportions & Application Problems#7

Use the step by step process that we have been working on in class:

- a) define the variable (i.e. $x = \#$ of lawns mowed)
- b) write an equation (i.e. $3x + 20 = 85$)
- c) solve the equation
- d) find the solution and check it
- e) answer the question in a complete sentence

1. Brendan wants to buy a new sound system for \$145. He has already saved \$65. He gets \$20 for each student that he tutors. Write an equation to show how many students Brendan must tutor in order to have enough money for his new sound system, then solve it.

2. Antonio bought Mrs. Becker six boxes of chocolate. He used a coupon that took \$1.00 off his total bill. His total bill came to \$23.00. Write an equation to show how much each box of chocolate cost, then solve it.

3. Brittany, her mom, and her two siblings went to a movie. The cost of her mother's ticket was \$6. Brittany's ticket cost the same as her two siblings (kids' rate). The total for all of them to watch the movie was \$15. Write an equation to show the cost of each of the kids' tickets, then solve it.