

Day 17c: Application Problems Practice

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. Breon wants to buy a new sound system for \$145. He has already saved \$65. He gets \$20 for each lawn that he mows. Write an equation to show how many lawns Breon must mow 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.

4. Erin went to the amusement park and paid \$7.00 just to get in. She also bought six cotton candies for herself and her five friends. She spent \$31.00 total at the amusement park. Write an equation to find the cost of each cotton candy, then solve it.

5. Jerome has \$28 in his pocket. He wants to buy as many candy bars as he can for \$1.75 each. Write an equation to show how many candy bars he can buy, then solve it.

6. Grace bought a book for \$8 and some pencils that cost \$.50 each. She spent a total of \$18. Write and solve an equation to determine how many pencils she bought.

7. Brian sold half of his baseball cards. The next day, he bought 10 more. Now he has a total of 50 cards. Write and solve an equation to determine how many baseball cards he had before he sold any.