

Name _____ Period _____ Date _____

Unit 3 Review (A.CED.1)

1-4: Write each as an algebraic equation and solve.

- 1) the quotient of x and 4 is equal to 7. 3) the sum of a number and 10 is equal to 38
- 2) 15 less than x is 34 4) the product of a number and 9 is equal to 81
- 5) Katie is purchasing tickets online to a ballet. There is a \$2.50 convenience fee for ordering the tickets online. The tickets are \$30 each plus a \$3 service fee per ticket. The total amount she pays is \$266.50. If t represents the number of tickets she purchases, then write an equation that could be used to find the number of tickets purchased? Then solve the equation to find the number of tickets.
- 6) The neighborhood candy store sold 222 candy items this week. Twice as many M&Ms were sold as Snickers, and three times as many Crunch bars were sold as Snickers bars. How many of each kind of candy were sold this week?

- 7) I spent \$55 shopping yesterday when I bought a t-shirt, a jacket, and a pair of jeans. The jacket cost twice as much as the t-shirt. The jeans cost 7 dollars more than the t-shirt. How much did each item cost?
- 8) Katelyn and Edwin want to rent a limousine for prom. The limo costs \$400 for the night and \$0.25 per mile. If they have \$450 set aside for the limo, how many miles can the limo take them?
- 9) Maria and Jordi are shopping at Old Navy and they only have \$75. Maria finds a t-shirt she loves for \$14 and Jordi finds a pair of shoes he needs for work for \$18. The tank tops are on sale for \$6 each. What are the most tank tops they can purchase before they're out of money?
- 10) Israel goes to BYU. He has \$900 in his saving account. He needs to buy a small laptop computer before next semester. If the laptop costs \$700 and he takes \$15 from his savings account per week for food, how many times can Garan withdraw money for food?