

Assign #10 SYSTEMS OF EQUATIONS-Real-life A.CED.A.2,3; A.REI.A.10,C.5; N.Q.A.1
[30 POINTS]

Day1: Set up Systems and get your systems checked by an adult (Ms. Grasso or myself). Then select a method to solve, either substitution or elimination (5 one way, 5 the other)

Day2: Solve them algebraically by your selected method then interpret your solution in terms of real-life as per the question and have your solution/interpretation checked by an adult(Ms. Grasso or myself)

Day3: Get the Graph Papers from the Big Dog. Use Ti-83 or DESMOS (5 using one, 5 using the other)to confirm your solution and sketch the graphs on graph paper(use a ruler and LABEL AXES AND POINTS OR YOU DO NOT GET CREDIT AS PER NJDOE!!)

1. The Maschio Cafeteria charges \$2.10 for a breakfast taco and a milk. The cost for 2 tacos and 3 milks is \$5.15. Write the System of Equations.
2. **Last week the freshmen class sold 6 more than 3 times the number of shirts that they sold this week. The freshmen sold a total of 110 shirts over the 2 weeks. Write the System of Equations that can be used to find L, the number of shirts sold last week, and T, the number of CDs she sold this week?
3. **The length of a rectangle is equal to triple the width. Write the System of Equations can be used to find the dimensions of the rectangle if the perimeter is 86 centimeters? (*hint: you need to think about how to find perimeter...or know the formula....*)
4. Josiah had 15 coins in nickels and quarters. He had a total of \$2.75. Write the System of Equations.
5. A website builder charges \$9.65 per page plus a setup fee of \$43. A second website builder charges \$8.40 per page plus a \$58 fee. Write the System of Equations.
6. The Schnyderite Balloon Company charges \$1.25 per balloon and \$6 delivery. The Kuhn Balloon Company charges \$1.95 per balloon and \$2 for delivery. Write the System of Equations.
7. Tahir has a bag containing 35 nickels and quarters. The total value of these coins is \$4.35. Write the System of Equations.
8. Unique and Ashlee went to the candy store. Unique bought 5 pieces of fudge and 3 pieces of bubble gum for a total of \$5.70. Ashlee bought 2 pieces of fudge and 10 pieces of bubble gum for a total of \$3.60. Write the System of Equations.
9. A large pizza at Delio's costs \$6.80 plus \$0.90 for each topping. The cost of a large cheese pizza at Pronto Pizza is \$7.30 plus \$0.65 for each topping. How many toppings need to be added to a large cheese pizza from Delio's and Pronto Pizza in order for the pizzas to cost the same? Write the System of Equations.
10. Mr. Schnyderite wants to take group fitness classes at a nearby gym, but needs to start by selecting a membership plan. With the first membership plan, Mr. Schnyderite can pay \$40 per month, plus a \$3 signing fee. Alternately, Big Johnny S. can get the second membership plan and pay \$20 per month plus a \$4 signing fee. Write the System of Equations.