

Name: \_\_\_\_\_

Date: \_\_\_\_\_

|                          |   |
|--------------------------|---|
| <b>Learning Goal 7.2</b> | Solve systems of linear equations using substitution. |
| <b>Learning Goal 7.3</b> | Solve systems of linear equations using elimination.  |

Do Oreo names make sense? Which one is the better deal? Let's find out! They claim that there is three times the cream in a Mega Stuff Oreo compared to a regular Oreo. Use the nutritional information for each kind of cookie and the price for each package provided to complete this handout. Show all your work and use each algebraic method to solve at least once to claim your prize at the end!

| Regular Oreos   | Mega Stuff Oreos |
|---|------------------|
| 1. What is the cookie composed of (wafers to cream)?                                      |                  |
|   |                  |
| 2. Write an <b>expression</b> to define your cookie. Make sure you define your variables. |                  |
|   |                  |
| 3. What is the weight of one cookie?  |                  |
|   |                  |
| 4. What is the cost of one cookie?  |                  |
|   |                  |

5. What is the equation for the weight of one cookie?

6. Solve the system of equations. What is the weight of the wafer? What is the weight of the filling?

7. What is the equation for the cost of one cookie?

8. Solve the system of equations. What is the cost of the wafer? What is the cost of the filling?