

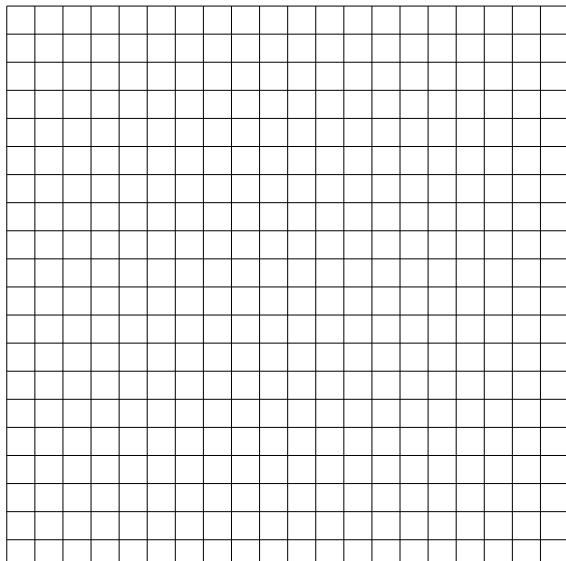
Name: \_\_\_\_\_

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

1. Three bags of potatoes and four cases of corn cost \$40. Five bags of potatoes and two cases of corn cost \$34. Find the cost of one bag of potatoes and the cost of one case of corn. [Show or explain the procedure used to obtain your answer.]
  
2. Cedric and Zelda went shopping at Price Buster. Cedric bought 2 jumbo rolls of aluminum foil and 3 packages of AA batteries for a total cost of \$21. Zelda bought 5 identical jumbo rolls of aluminum foil and 2 identical packages of AA batteries for a total cost of \$25. Find the cost of 1 roll of aluminum foil and find the cost of 1 package of AA batteries. [Only an algebraic solution will be accepted.]
  
3. When Tony received his weekly allowance, he decided to purchase candy bars for all his friends. Tony bought three Milk Chocolate bars and four Creamy Nougat bars, which cost a total of \$4.25 without tax. Then he realized this candy would not be enough for all his friends, so he returned to the store and bought an additional six Milk Chocolate bars and four Creamy Nougat bars, which cost a total of \$6.50 without tax. How much did *each* type of candy bar cost?
  
4. Tanisha and Rachel had lunch at the mall. Tanisha ordered three slices of pizza and two colas. Rachel ordered two slices of pizza and three colas. Tanisha's bill was \$6.00, and Rachel's bill was \$5.25. What was the price of one slice of pizza? What was the price of one cola?
  
5. Alexandra purchases two doughnuts and three cookies at a doughnut shop and is charged \$3.30. Briana purchases five doughnuts and two cookies at the same shop for \$4.95. All the doughnuts have the same price and all the cookies have the same price. Find the cost of one doughnut and find the cost of one cookie.
  
6. A cellular telephone company has two plans. Plan A charges \$11 a month and \$0.21 per minute. Plan B charges \$20 a month and \$0.10 per minute. After how much time, to the *nearest minute*, will the cost of plan A be equal to the cost of plan B?
 

A. 1 hr 22 min	B. 1 hr 36 min
C. 81 hr 8 min	D. 81 hr 48 min
  
7. At the local video rental store, José rents two movies and three games for a total of \$15.50. At the same time, Meg rents three movies and one game for a total of \$12.05. How much money is needed to rent a combination of one game and one movie?

8. Island Rent-a-Car charges a car rental fee of \$40 plus \$5 per hour or fraction of an hour. Wayne's Wheels charges a car rental fee of \$25 plus \$7.50 per hour or fraction of an hour. Under what conditions does it cost less to rent from Island Rent-a-Car? [The use of the accompanying grid is optional.]



9. Jack bought 3 slices of cheese pizza and 4 slices of mushroom pizza for a total cost of \$12.50. Grace bought 3 slices of cheese pizza and 2 slices of mushroom pizza for a total cost of \$8.50. What is the cost of one slice of mushroom pizza?
- A. \$1.50    B. \$2.00    C. \$3.00    D. \$3.50
10. At Genesee High School, the sophomore class has 60 more students than the freshman class. The junior class has 50 fewer students than twice the students in the freshman class. The senior class is three times as large as the freshman class. If there are a total of 1,424 students at Genesee High School, how many students are in the freshman class?
- A. 202    B. 205    C. 235    D. 236

Algebra 2 Chapter 3 Section 6      Alg2 Ch3      Mr. Clausen      09/16/2012

1.  
Answer: \$4/bag of potatoes; \$7/case of corn
2.  
Answer: \$3 for one jumbo roll of aluminum foil. \$5 for one package of AA batteries.
3.  
Answer: Milk Chocolate bar = \$0.75 and Creamy Nougat bar = \$0.50
4.  
Answer: \$1.50 for one slice of pizza and \$0.75 for one cola
5.  
Answer: One doughnut is \$0.75 and one cookie is \$0.60
6.  
Answer: A
7.  
Answer: \$6.15
8.  
Answer: More than 6 hours
9.  
Answer: B
10.  
Answer: A