

system word problems

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. Ramón rented a sprayer and a generator. On his first job, he used each piece of equipment for 6 hours at a total cost of \$90. On his second job, he used the sprayer for 4 hours and the generator for 8 hours at a total cost of \$100. What was the hourly cost of *each* piece of equipment?
  
  
  
  
  
  
  
  
  
  
3. During its first week of business, a market sold a total of 108 apples and oranges. The second week, five times the number of apples and three times the number of oranges were sold. A total of 452 apples and oranges were sold during the second week. Determine how many apples and how many oranges were sold the *first week*.
  
  
  
  
  
  
  
  
  
  
4. 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
  
  
  
  
  
  
  
  
  
  
5. 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