## Bellwork Alg 2A Friday, November 11, 2016

1. You are trying to decide between two health clubs to join. One club charges a \$98 sign-up fee then \$12 per month. The other club charges a \$50 sign-up fee then \$15 per month. After how many months will the total charges for the two clubs be the same?

2. On a farm there are only cows and ducks. The number of ducks is one more than three times the number of cows. There is a total of 122 legs amongst these animals. Find the number of cows and ducks on the farm.

Bellwork Alg 2A Friday, November 11, 2016 Answers 1. You are trying to decide between two health clubs to join. One club charges a \$98 sign-up fee then \$12 per month. The other club charges a \$50 sign-up fee then \$15 per month. After how many months will the total charges for the two clubs be the same?



2. On a farm there are only cows and ducks. The number of ducks is one more than three times the number of cows. There is a total of 122 legs amongst these animals. Find the number of cows and ducks on the farm.

$$c = \# cows 
d = 3c + 1 
d = # ducks 
d = 3c + 1 
Hc + 2d = /22 
4c + 2d = /22 
Hc + 2d = /20 
Hc + 2d$$