Friday, October 14, 2010 Hon Alg 2 Bellwork Use the information below:

I'm going to the store to buy some CD's and some DVD's. DVD's cost \$12 each and CD's cost \$8 each. I have room for no more than three CD's in my collection. I can spend no more than \$48 at the store.

1. Define variables and write four inequalities to represent all the constraints in this situation.

2. Find at least 5 combinations of CD's and/or DVD's that meet all of these constraints.

Hon Alg 2 Friday, October 14, 2016 Bellwork Use the information below:

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1. Define variables and write four inequalities to represent all the constraints in this situation.

C = # cD's boughtD = # DVD's boughtD = 0 C E 3 $C \ge 0 C E 3$ $C \ge 0 C E 3$ C = 0 C E 3C = 0 C E 3C

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2. Find at least 5 combinations of CD's and/or DVD's that meet all of these constraints.

There are 15 possible combinations of CD's and/or DVD's that meet all constraints. Given as ordered pairs (C, D) (0,0) (1,0) (2,0) (3,0) (0,1) (1,1) (2,1) (3,1)(0,2) (1,2) (2i2) (3,2) (0,3) (1,3) (0,4)