Name _____ Class _____

3-1: Ordered Pairs Notes

The table shows the number of cartons and the number of eggs that are in each carton.

Number of Cartons	Number of Eggs
1	12
2	24
3	36
4	48
5	60
6	72

1) How many eggs are there in one carton?

2) How many eggs are there in 4 cartons?

3) If you had 36 eggs, how many cartons would that be?

You can show the relationship between the number of cartons and the number of eggs as an _____ _____. For example: _____ is the ordered pair which stands for 1 egg carton, 12 eggs. An _____ _____ has two numbers, and they must be placed in the correct _____.

4) Write the ordered pair for 3 eggs cartons.

5) Write the ordered pair for 5 eggs cartons.

Write "true" or "false."

6) The ordered pair for 6 egg cartons is (72, 6).

7) The ordered pair for 2 egg cartons is (2, 24).

Write ordered pairs for the following.

8) One deck of cards contains 52 cards.

9) Two packs of soda contain 12 cans.

10) Three packages of gum contain 15 pieces.

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Ordered pairs can be used for variables too. We use the general form _____ to ordered variables (note: alphabetical order)!

Determine whether each ordered pair is a solution of y = x + 6.

1) (3, 8)

2) (5, 11)

3) (13, 7)

Determine whether each ordered pair is a solution of y = 2x + 1.

4) (0, 3)

5) (3, 6)

6) (5, 11)

Complete the tables.

7) y = x + 4

x		**y**
-2		
-1		
0		
1		
2		

8) y = 3x

x		**y**
-2		
-1		
0		
1		
2		

9) y = 4x – 1

x		**y**
-2		
-1		
0		
1		
2		

10) To become a member at a gym, you must pay a start-up fee of $100 plus $25 each month. The equation that gives the total amount "t" spent on the gym is **t = 100 + 25m** where "m" is the number of months as a member. Write an ordered pair (m, t) for the total amount spent on the gym for someone that has been a member for:

a. 3 months?

b. 6 months?

c. A year?

11) A taxi charges $2.50 flat fee plus $0.30 per mile. Use the equation **c = 2.50 + 0.30m** where "c" is the cost of the ride and "m" is the number of miles to write an ordered pair **(m, c)** for a 23-mile taxi ride.