Bellwork Alg 2A Wednesday, December 21, 2016

1. Three brothers each arranged a date with women they had ever met before.
They each formed a plan. By coincidence, each brother decided to buy a box of candy at the same store, and each one bought tickets at the same ticket outlet.
Andy bought honey-based candies, as he wanted to show what a sweet guy he could bee. Tooley bought chew, as he wanted to show that he wouldn't accept just anybody, he was a choosy guy. Marty bought nuts without realizing the message it could send.
When it came time to leave, each brother grabbed the wrong candy box and ticket envelope. None of them took the candy or tickets that belonged to him. Each took the tickets of another brother and the candy of the other. To make things short, Andy didn't have Marty's candy, and you'll have to figure out the rest.
Your job is it to figure out whose candy and whose tickets each person had.

2. Penny's favorite coin is the dime. Since she last counted her dimes Penny has spent some and acquired some more, so she does not know how many she has now, although she knows it is fewer than 100. One day she was arranging them on her desk in different ways. She found that when she put them in piles of two, there was one left over. When she put them into piles of three, there was one left over, and the same thing happened when she put them into piles of four. She then tried putting them in piles of five, and found that there were none left over. How many dimes does Penny have?

Bellwork Answers

(1)

	Andy's candy	Marty's candy	Tooley's candy	Marty's TIX	Andy's TIX	Tooley's TIX
Andy	X	X	O	O	X	X
Marty	O	X	X	X	X	O
Tooley	X	O	X	X	O	X

Andy had: Tooley's candy & Marty's tickets

Marty had: Andy's candy & Tooley's tickets

Tooley had: Marty's candy & Andy's tickets

(2)

< 100

piles of two - one left over → ODD #

piles of 3 - " " " → ÷ 3 remainder = 1

piles of 4 - " " " → ÷ 4 remainder = 1

piles of 5 - NONE left over → multiple of 5

5 X

~~15~~

25 ✓

35 X

~~45~~

55 X

65 X

~~75~~

85 ✓

95 X

multiples of 3

25 or 85