SM2. 12.3 Venn Diagrams	Name
1. Given the sets $X = \{1,3,6,9,12,15\}$ and $Y = \{2,4,6,8,10,12,14\}$ Create a Venn diagram for the above sets.	Find $X \cap Y$
	Find $X \cup Y$
 2. Given the sets A = Multiples of 4 from 1 - 50 and B = Multiples of 6 from 1 to 50 Create a Venn diagram for the above sets. 	Find $A \cap B$
	Find $A \cup B$
 3. Given the sets A = Multiples of 5 from 1 - 50 and B = Multiples of 3 from 1 to 50 Create a Venn diagram for the above sets. 	Find $A \cap B$
	Find <i>A</i> ∪ <i>B</i>



Male		
Female		
Totals		

11.

a. Find the probability of Candy A, given they are Female.

b. Find the probability that it was a Male given they picked candy B.

Michael has two boxes. Box A contains 5 red tokens and 10 black tokens. Box B contains 6 red tokens and 8 black tokens. The contents of each box are shown in the table.

Color	Box A	Box B	Total
Red	5	6	11
Black	10	8	18
Total	15	14	29

12.

- a. What is the probability of drawing a red out of Box A and then a Red out of box B?
- b. What is the probability of drawing a red, and then another red (no replacement) out of box A?
- c. What is the probability of getting a black given you are in Box B.



