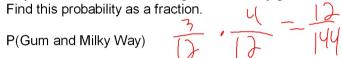
Bellwork Friday, May 9, 2014

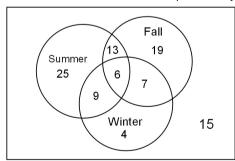
- 1. You still have the following Halloween candy left in a bag: 5 Snickers, 3 pieces of gum, and 4 Milky Way.
- a) You randomly grab one eat it then randomly grab another and eat it. Find this probability as a fraction.

P(Snickers and Snickers)
$$\frac{5}{12} \cdot \frac{4}{11} = \frac{30}{132}$$

b) You randomly grab one, look at it and decided not too eat it so you throw it back in the bag and randomly grab another one. Find this probability as a fraction.



3. The Venn Diagram shows the results of a survey of people's favorite seasons. Find each probability as a fraction.



- a) P(Winter) = $\frac{26}{98}$
- b) P(Summer or Fall) = 90
- c) P(Fall and Winter but 7 not Summer)
- d) P(Winter or Summer but not Fall)



2. You are blowing up balloons for a birthday party. In the bag of balloons you bought there are 9 red, 5 green, and 6 blue balloons. You take a random balloon and blow it up and hang it from a chair. You then blow up another random balloon and hang it from another chair. Finally you blow up another random balloon. Find this probability as a fraction.

P(Green and Red and Green)

$$\frac{5}{20} \cdot \frac{9}{19} \cdot \frac{4}{18} = \frac{180}{6840}$$

4. Assuming that a dart will land randomly inside triangle ABC. Find the probability that it lands in the shaded region. Give your answer as a fraction.

Draw the extra lines in red to create congruent triangles and count to find probability.

