Bellwork Tuesday, May 6, 2014

1. In your drawer at home you have 14 white socks, 10 black socks, 6 brown socks, and 4 blue socks. You wake up late and just reach in and grab a single sock. Find each probability as a fraction.

a) P(black or blue) = $\frac{14}{34}$

b) P(white and black) = $\frac{0}{34}$

c) P(brown or not white) = $\frac{20}{34}$

6 Brown + 10 BLK

4 BLUE

~~6 BROWN~~

2. Using the same sock drawer from #1: You reach in and grab a random sock, put it back in, then grab another sock. Find this probability as a fraction:

P(black first and then a brown)

$\frac{10}{34} \cdot \frac{6}{34} = \frac{60}{1156}$

3. Given a standard deck of cards find each probability as a fraction assuming that you take out one card at random.

a) P(King or Queen) = $\frac{8}{52}$

b) P(5 of Clubs) = $\frac{1}{52}$

c) P(Heart and a Face Card) = $\frac{3}{52}$

d) P(10 or a Diamond) = $\frac{16}{52}$

4 + 13 - 1

e) P(Red 8) = $\frac{2}{52}$

4. A survey of people's favorite fruit in conducted. The results are shown below. You will pick a person at random, find each probability as a fraction.

	Apple	Pear	Orange	Banana	Total
Male	73	64	80	51	268
Female	68	75	83	56	282
Total	141	139	163	107	550

a) P(Apple) = $\frac{141}{550}$

b) P(Banana or Orange) = $\frac{270}{550}$

c) P(Female and Pear) = $\frac{75}{550}$

d) P(Male or Apple) = $\frac{336}{550}$