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)

b) P(white and black)

c) P(brown or not white)

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)

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)

b) P(5 of Clubs)

c) P(Heart and a Face Card)

d) P(10 or a Diamond)

e) P(Red 8)

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)

b) P(Banana or Orange)

c) P(Female and Pear)

d) P(Male or Apple)