**Section 12.2**

**Activity 1**

Consider the action of drawing one card from a well shuffled deck of playing cards. What is the probability of:

* The chosen card is a red card.
* The chosen card is an even number.
* The chosen card is a face card
* The card is at least a ten (Aces are high)
* The card is at most a 4.

**Activity 2**

Consider the action of drawing one card from a well shuffled deck of playing cards. What is the probability of:

1. The chosen card is a red card and a black card?
2. The chosen card is a red card or a black card?
3. The chosen card is an even card or a face card?
4. The chosen card is a red card and an ace?
5. The chosen card is a red card or an ace?

**Activity 3**

I am going to roll two “fair” dice at the same time.

* What is the size of the sample space?
* What is the probability of getting “snake eyes” (two 1s)
* What is the probability of getting doubles?
* What is the probability of getting a 1 on at least one die?
* What is the probability of getting a total of 5 on the two dice?
* What is the probability of getting two consecutive values? (for example, a 2 and a 3)
* What is the probability of getting a total greater than 10?
* What is the probability that the sum of the two dice is an odd number?