**Assignment 1 – Probability and Statistics**

**Lee O’Sullivan – 2992902**

1. **A)** Outcomes: 2, 4, 6. Result: =

**B)** 1 is the full value. 1 – 0.6 = 0.4

1. As seen on question 1 a. the chance of an even number is so the chance of getting even on two throws is \* = =
2. 4 and 6 are the only even numbers greater than 2, and as there is two dices the number of time it could occur is 6 \* 6 = 36. (2, 4) , (2, 6) = =
3. 13 Clubs. 4 Kings. + - = =
4. 13 Diamonds, 13 hearts. 3 picture cards in each.
5. 26 Red cards, 4 aces. \* = =
6. **A)** Only numbers on a dice which add up to 3 are 2 and 1. (2,1) (1,2) = =

**B)** (3,4) (4,3) (5,2) (2,5) (6,1)(1,6) = =

**8.** 3 coins. 2 outcomes. = 8. (HHT, THH, HTH, HHH) =

**9.** 3 coins. 2 outcomes. = 8. (HHT, THH, HTH, TTT, TTH, HTT, THT) =

**10.** 4 coins. 2 outcomes. = 16. (HHTT, TTHH, HTHT, THTH) =