

Math 13 Chapter 4 Overview Problems

1) Suppose that you chose a card randomly from a well-shuffled deck of 52 cards. Find the probability that it is a queen or a red card.

2) Suppose that you chose two cards randomly from a well-shuffled deck of 52 cards. Find the probability of getting a queen and then red card.

3) Suppose that you were dealt 5 cards randomly from a well-shuffled deck of 52 cards. How many different 5 card hands are possible?

4) A couple wants to have 5 kids.

a) Find the probability that they have exactly 5 girls.

b) Find the probability that they have at least one boy.

5) Out of 1250 people interviewed, 698 had flown on a plane in the last year. What percent does this represent?

6) It was reported that 42.3% of Americans approve of the job that President Obama is doing. There are 317,336,410 people in the US. How many of them approve of the job that President Obama is doing?

7) Suppose you take a True/False test with 10 questions, but you randomly guess each answer. Find the probability of getting an A on the test.

8) Suppose there were 12 kids in a race. How many possible 1st, 2nd, 3rd places are possible.