Tutorial 17

1. A die is thrown once. Find the probability of getting a prime number

2. In a group of 300 students, 150 of them have brown eyes, 45 have blue eyes and the rest have green eyes. If a person is chose at random from these 300 students, find the probability that the person
    a) has blue eyes.
    b) does not has green eyes

(Level 2)

3. The cats in a zoo are either brown or black. There are 12 less brown cats than black cats. If a cat is chosen randomly, the probability of getting a brown cat is $\frac{1}{3}$. Find the number of cats in the zoo.

4. What is the probability that a 2-digit number chosen at random is divisible by 11?

5. A box contains 156 rubber bands. There are 100 yellow rubber bands and the rest are green or red. The green ones are 3 times as many as the red ones.
    a) Find the number of green bands.
    b) Find the probability of getting a red band if a band is chosen from the box randomly.
    c) *y* red bands are added into the box. The results of b becomes $\frac{10}{81}$. Find *y*.

Solution

1.   0.5

2.   a) 0.15   b) 0.65

(**Level 2**)

3.   36

4. $\dfrac{1}{10}$

5.   a) 42

     b) $\dfrac{7}{78}$

     c) $y = 6$