Activity 5

1. There are 28 girls and 22 boys in the field school field, the probability of selecting a girls become $\frac{2}{5}$. Find the value of x.

2. There are 25 blue balls and x yellow balls in a basket. One ball is selected at random. Given the probability that its yellow is $\frac{4}{9}$, find the value of x.

3. A bag contains 16 balls of which x are red. When 8 more red balls are added to the bag, the probability of drawing a red ball becomes $\frac{2}{5}$. Find the value of x.

4. A worker tested on 1000 batteries and 5 are found to be faulty.

   a. If a battery is chosen at random, find the probability that a faulty battery is chosen.

   b. If another 600 batteries are tested, how many of them are expected to be faulty?

5. A dice is tossed 80 times. The result are as recorded below.

| Number | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 12 | 10 | 13 | 14 | 16 | 15 |

   Find the probability of

   a. Getting the number 2

   b. Getting an even number

   c. Getting a number divisible by 3

   d. Getting a number greater than 6

LIVEWORKSHEETS