

### 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