

**Predicting the Outcome of Events - Guided Lesson Explanation****Explanation#1**

There are total 5 balls, numbered 2, 5, 7, 8, 10. Here the even numbers are 2, 8, 10. So there are 3 even numbers.

$$P(\text{even}) = \frac{3}{5}$$

So, the probability of picking an even ball is  $\frac{3}{5}$

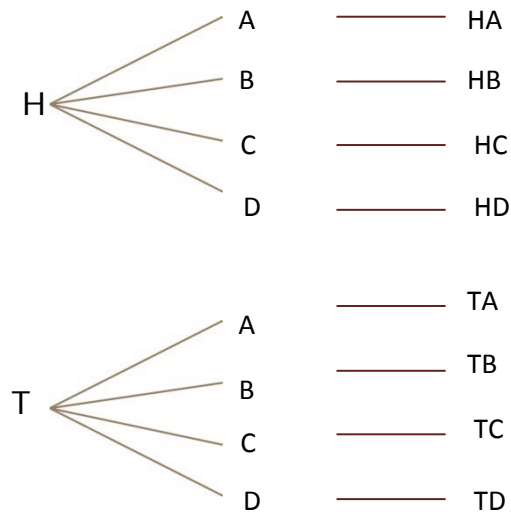
**Explanation#2**

First make a tree diagram, then count the branches.

The first event has 2 outcomes: Heads (H), Tails (T)

The second event had 4 outcomes: A, B, C, D.

Make the tree diagram: -



Count the number of branches. There are 8 branches.

So, the answer is 8 possible outcomes.



Name \_\_\_\_\_

Date \_\_\_\_\_

### Explanation#3

There are total 6 bottles, numbered 1, 2, 4, 7, 8, 9. Here the odd numbers are 1, 7, 9. So there are 3 odd numbers.

$$P(\text{even}) = \frac{3}{6}$$

Now, simplify this.

$$\frac{3}{6} = \frac{1}{2}$$

So, the probability of picking an odd bottle is  $\frac{1}{2}$

