

ACTIVITY 5

Subject	MATHEMATICS
Class	VIII
Chapter/Unit	<u>DATA HANDLING</u>
Topic	EQUALLY LIKELY OUTCOMES
Time	30 MINUTES
Nature of Activity	PAIRS

What will I learn (Learning Outcome)?

The concept of equally likely outcomes.

Skills: Visualizing, Creating ,Accuracy, logical ability

What I have to do?

To show that tossing of a coin is an equally likely event.

What do I require?

A chart paper,pencil box,a coin.

What do I need to know?

Frequency distribution table.

➤ **Teacher's Activity**

Teacher will show a coin and discuss the frequency distribution table. The teacher will divide the class into pairs.

How will I proceed?

➤ **Student's Activity**

The students will work in pairs. One student will toss the coin and the partner will record the outcome using tally marks ,as shown below

number of tosses	tally marks (H)	number of heads	tally marks (T)	number of tails
50	 	27	 	23
60	 	28	 	32
70		33		37
80		38		42
90		44		46

What have I observed?

As the number of tosses increase, what happens to the number of heads and tails?

What have I learnt?

All the outcomes have an equal chance of _____ in an equally likely event.

What am I curious to learn?

Rolling a dice a number of times and interpreting the outcomes.

Let me evaluate myself

1.If we roll a dice once what are the outcomes?

2. In a school only, 3 out of 5 students can participate in a competition. What is the probability of the students who do not make it to the competition?

3. What is the probability of choosing a vowel from the English alphabets?

4. Ram put some buttons on the table. There were 4 blue, 7 red, 3 black and 6 white buttons in all. All of a sudden, a cat jumped on the table and knocked out one button on the floor. What is the probability that the button on the floor is blue?

5. A coin is tossed 200 times and head appeared 120 times. What is the probability of getting a head in this experiment ?
