Probability

45 MINUTES

Objective

The child will be able to

- Find the probability based on the given data.

Word Wall

Word: Probability

Meaning: An event is likely to occur.

$$\text{Probablity} = \frac{\text{Number of favourable outcomes}}{\text{Total number of possible outcomes.}}$$

Pre Knowledge Check

The child should be able to

- Recognize numbers and
- Count forward
- Making groups

to successfully complete the activity.

ASK

Can we predict events?

Yes, probability helps to predict events.

IMAGINE

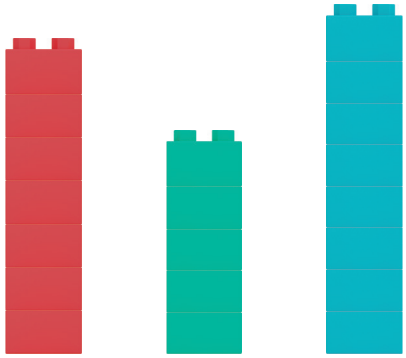
Masha has some BRICKS in a jar.

What is the probability of taking out each colored BRICK from the jar?

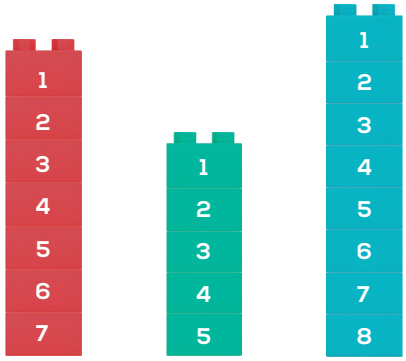
PLAN

We can find the probability of taking one BRICK in each color using the probability formula. Let's understand the concept using BRICKS.

Step 1: *Sort all the BRICKS in the jar as shown.*



Step 2: *Count the number of BRICKS in each color.*



Step 3: *Use the formula to find the probability.*

$$\text{Probablity} = \frac{\text{Number of favourable outcomes}}{\text{Total number of possible outcomes.}}$$

Thus, we can say that:

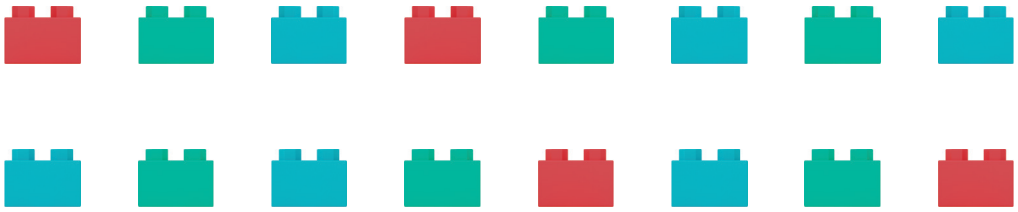
$$\text{Probability of getting Blue coloured BRICK} = \frac{8}{20}$$

$$\text{Probability of getting Green coloured BRICK} = \frac{5}{20}$$

$$\text{Probability of getting Red coloured BRICK} = \frac{7}{20}$$

CREATE

A bag contains the following bricks.



Answer the following:

1) How many bricks are there in total? _____

2) What is the probability of Red BRICKS? _____

3) What is the probability of Blue BRICKS? _____

4) What is the probability of Green BRICKS? _____

ANALYZE

Using BRICKS find the probability of each colored BRICKS given.

EXTEND

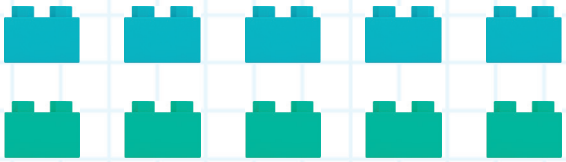
What are the possible outcomes when you toss a coin?

Worksheet

1. What is the probability of getting red?

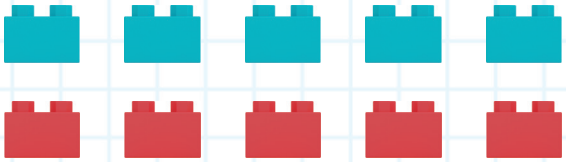
i) $\frac{1}{5}$ ii) $\frac{2}{5}$ iii) $\frac{5}{5}$

2. What is the probability of getting green?



i) $\frac{10}{5}$ ii) $\frac{10}{10}$ iii) $\frac{5}{10}$

3. What is the probability of getting blue for the following picture?



i) $\frac{10}{5}$ ii) 0 iii) $\frac{5}{10}$

4. A bag contains 5 yellow, 3 blue, 2 green and 1 red brick.
What is the probability of not getting yellow bricks?