FRACTIONS

A DEFINITIONS

Discover:

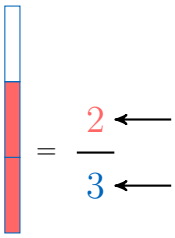
- Hugo shares a cake with his brother Louis: 1 cake = 
- Hugo cuts the cake into two equal parts: 
- Hugo takes 1 of 2 parts: 
- His father asks, "Can you represent the part you have with a number?" Hugo thinks carefully. "I know numbers like 0, 1, 2, and so on. But 1 represents a whole cake, and 0 means no cake at all." Then he realizes, "I can use a fraction!" His father smiles and says, "Exactly! We write it as

$$\frac{1}{2}$$

where 1 is the number of parts you have, and 2 is the total number of equal parts in the whole cake."

Definition **Fraction**

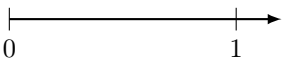
A **fraction** includes two numbers: the **numerator** and the **denominator**, separated by a bar.



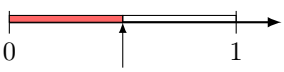
B ON THE NUMBER LINE

Discover:

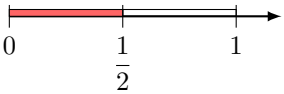
- Hugo is walking along a path.



- He stops and asks himself, "Where am I?"



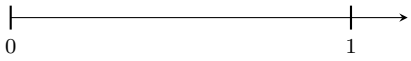
- His father says, "You are at half of the way that is $\frac{1}{2}$."



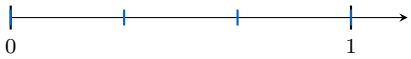
Method **Representing a Fraction on the Number Line**

To represent the fraction $\frac{2}{3}$ on a number line.

1. Draw a straight line and mark the points 0 and 1.



2. Divide the line between 0 and 1 into 3 equal parts.



3. Count 2 parts from 0 and mark the point.