FRACTIONS

Numerator

$$\frac{a}{b} = c$$

Quotient or result of the fraction

Denominator

FRACTION: Essentially a fraction is a quotient between two numbers that expresses a certain number of portions of a whole, divided into equal parts.

The **numerator** means the number of "divided" parts that should be selected. The **denominator** means the number of equal parts into which the whole is to be divided.
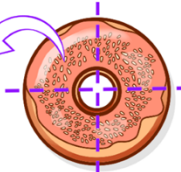

EXAMPLE 1: If we divide a donut into four equal parts, how would the fraction of one of those four parts be represented?

SOLUTION: 1) Visual model:

Arithmetically:

$$\frac{1}{4}$$

1 — part of the donut

4 — Number of equal parts into which the donut is divided

EXAMPLE 2: Represent as a fraction the amount of water needed to fill the bottle.

SOLUTION:

Arithmetically:

$$\frac{3}{10}$$

3 — Empty sections

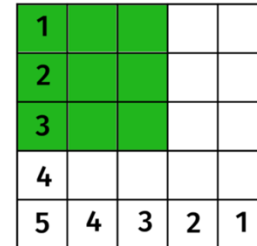10 — Number of parts in which the Bottle is divided

1 2 3 4 5 6 7 8 9 10

EXAMPLE 3: What fraction represents the colored area in the figure below?

SOLUTION:

Arithmetically:

$$\frac{9}{25}$$

9 — Shaded parts

25 — Number of parts into which the square is divided

1				
2				
3				
4				
5	4	3	2	1