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# **Fractions**

## **Basis of Fractions**

A fraction is a way of representing division of a "whole" into "parts". It has the form of  $\frac{1}{2}$ ,  $\frac{2}{3}$ . It consists of two numbers. The number on top is called the numerator. The number on the bottom is called the denominator.

There are three distinct meanings of fractions.

1. Part-Whole:  $\frac{3}{4}$  indicates that a whole has been partitioned into four equal parts and three of those parts are being considered.

2. Division:  $\frac{3}{4}$  may also be considered as a division 3 ÷ 4. Suppose you have 3 pizzas to be shared with 4

friends equally. How much should each one get? You can use 3 ÷ 4 or each one gets  $\frac{3}{4}$  of a pizza.

3. Ratio: The fraction  $\frac{3}{4}$  may also represent a ratio. For example, there are 3 girls for every 4 boys in your school.

#### Example 1

### What fraction of the shape is red?





We consider the circle as a "whole". It was divided into 4 parts and one of them is colored red.

Therefore, the answer is  $\frac{1}{4}$ .

### Example 2

What fraction of the set of kites is circled?



