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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?



