

# HESI A2 Math Study Guide

## Introduction to Fractions

A fraction is a mathematical tool which helps us to count in terms of equal parts of a whole.

For example, a recipe requires  $2\frac{3}{4}$  cups of milk, Mike ate  $\frac{1}{4}$  of a cake, Sarah ran  $\frac{1}{4}$  of a mile, John repaid  $\frac{1}{5}$  of a loan.

A fraction is any number of equal parts.

For example, if we cut a small size sausage pizza into 4 equal slices, then 3 such slices of the pizza are the same as:

3 out of the 4 equal slices of the pizza,

or three fourth of the pizza,

or  $\frac{3}{4}$  of the pizza.

As we can see from the above example, a fraction has two components, which are called numerator and denominator.

For example, if we consider  $\frac{1}{4}$  of a cake, then 1 is the numerator and 4 is the denominator.

A denominator tells us a number of equal parts that make up a whole while a numerator tells us how many of them we are considering.

For example, when we say  $\frac{1}{4}$  we are talking about 4 equal parts such that 1 of them make up a whole; in other words, we divided a whole into 4 equal parts and now considering 1 such parts.

Both numerator and denominator of a fraction are integers; however, denominator cannot be zero (we cannot divide a whole into zero parts).

**Exercise 1.** The cost of the vacation trip is \$4,500 and we are required to pay  $\frac{2}{5}$  of that amount when we reserve the trip. How much we need to pay during the reservation?

**Solution.** All we need to do is to calculate  $\frac{2}{5}$  of the cost of the trip.

Since the denominator of the fraction  $\frac{2}{5}$  is 5, we understand that the cost is divided into 5 equal amounts:

$$\$4,500 = \$900 + \$900 + \$900 + \$900 + \$900$$

The numerator of the fraction  $\frac{2}{5}$  (which is two) tells us how many of those equal amounts we have to pay to reserve the trip:

$$\$900 + \$900 = \$1,800$$

**Answer.** So, we need to pay \$1,800.

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