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| **Question Pack - Math Fractions** |
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[Fractions Types 3](#_Toc186388577)

[Simple Fractions 3](#_Toc186388578)

[Mixed Fractions 3](#_Toc186388579)

[Decimal Form 3](#_Toc186388580)

[Percentage 3](#_Toc186388581)

[Repeating digit 3](#_Toc186388582)

[Fraction Addition 3](#_Toc186388583)

[Fraction Subtraction 3](#_Toc186388584)

[Fraction Multiplication 3](#_Toc186388585)

[Fraction Division 3](#_Toc186388586)

# Factors

If *f* divides a positive integer *n* with no reminder then *f* is a factor of *n*. If *f* is a prime number then it is a called a prime factor. Every positive integer has unique set of prime factors represented by the following equation.

Example

Total number of factors can be computed by adding one to the powers of each prime factor and getting the product.

Every factor of a number is expressed as product of 1 or more of its prime factors. can be selected 0 to number of ways. Hence the number in the above equation. Choosing all the prime factors will result in the original number. In this expression choosing zero prime factors is included. These two are compensated by 1 and the number itself. As 1 and the number itself are also factors.

Example

Note: Square numbers have odd number of factors.

# Fractions Types

A fraction is part of a full objection. If you say ½ pizza, it means half of pizza. ¼ pizza is quarter part of pizza.

## Simple Fractions

Simple fractions are of the form .

## Mixed Fractions

Simple fractions are of the form .. The equivalent part of simple (improper) fraction is

## Decimal Form

1/10 (tenth) is 0.1, 1/100 (hundredth) is .01, 1/1000 (thousandth) is 0.001, 1/10000 (ten thousandth) is .0001

## Percentage

To convert a percent to a fraction form divide the percent by a 100. (e.g.) 50% = 0.5.

## Repeating digit

### Basic repeating

0.3333333… = 0.3 = 3/9

0.454545… = 0.45 = 45/99

If you divide a number by 9, causes repeated numbers.

### zeros precede repeating digits

0.000454545… = 0.00045 = 45/99000

### Any decimal

Rewrite any decimal into fraction part and zeros preceding repeating part.

# Fraction Addition

# Fraction Subtraction

# Fraction Multiplication

# Fraction Division