



DIVISION

'Dividing by Multiples of 10'

1. When dividing a number by a multiple of 10, 100 or 1000, we follow some simple rules.

To understand, let's look at the following example.

Let's take 54,000 as our dividend.

When divided by 10, 54,000 will lose one of its zeros and we'll get our quotient i.e. 5,400

$$54,000 \div 10 = 5,400$$

When divided by 100, 54,000 will lose two of its zeros and we'll get our quotient i.e. 540

$$54,000 \div 100 = 540$$

When divided by 1000, 54,000 will lose all three of its zeros and we'll get our quotient i.e. 54

$$54,000 \div 1000 = 54$$

2. When we are dividing a multiple of 10, 100 or 1000, we will follow the basic division rules here too.

Let's look at the following example. Take 12,000 as our dividend and 2 as our divisor.

Simply we will divide 12 by 2 and will add the number of zeros in the dividend in our quotient.

$$12,000 \div 2 = 6,000 \quad (12 \div 2 = 6)$$

3. When dividing a multiple of 10, 100 or 1000 by a multiple of 10, 100 or 1000, we will go about as follows.

We simply cut the zeroes in the divisor with the zeroes in the dividend and will then divide dividend by the single digit we have now in the divisor following the rules we discuss in point#2.

$$12,000 \div 20 = 600 \quad \text{or} \quad 12,000 \div 200 = 60$$