



Class – 5

Chapter – 7

## Decimal Fraction

### Lecture Sheet - 1

**Decimal Fraction:** A fraction where the denominator (the bottom number) is a power of ten (such as 10 , 100 , 1000 etc).

$$\frac{53}{100} = 0.53$$

└──────────┘ Decimal point

**If we divide any number by 10,100,100.....etc, the decimal point moves to the left as many as the number of 0 s. Here we can see that 53/ 53.0 is divided by 100 so the decimal point moves 2 digits left because 100 has 2 zeros.**

You can write decimal fractions with a decimal point (and no denominator), which make it easier to do calculation like addition and multiplication on fraction.

Example: i)  $\frac{7}{10}$  is a decimal fraction and it can be shown as 0.7.

ii)  $\frac{43}{100}$  is a decimal fraction and it can be shown as 0.43.

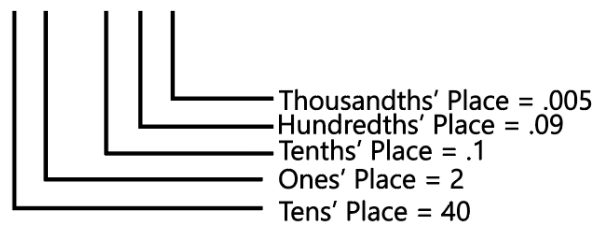
iii)  $\frac{51}{1000}$  is a decimal fraction and it can be shown as 0.051

## Place value and decimal

Name of place	Tens' place	Ones' place		Tenths' place	Hundredths' place	Thousandths' place
<b>Unit</b>	<b>10</b>	<b>1</b>		<b>0.1</b>	<b>0.01</b>	<b>0.001</b>
<b>Number</b>	<b>4</b>	<b>2</b>	<b>.</b>	<b>1</b>	<b>9</b>	<b>5</b>

Tenths' place = 0.1, hundredths place = 0.01, Thousandth's place = 0.001

4 2 . 1 9 5



**In multiplying 1 by 10 and dividing 1 by 10, we have the following number.**

$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 10$	
100 ←	10 ←	1 ←	0.1 ←	0.01 ←	0.001
→	→	→	→	→	
÷10	÷10	÷10	÷10	÷10	

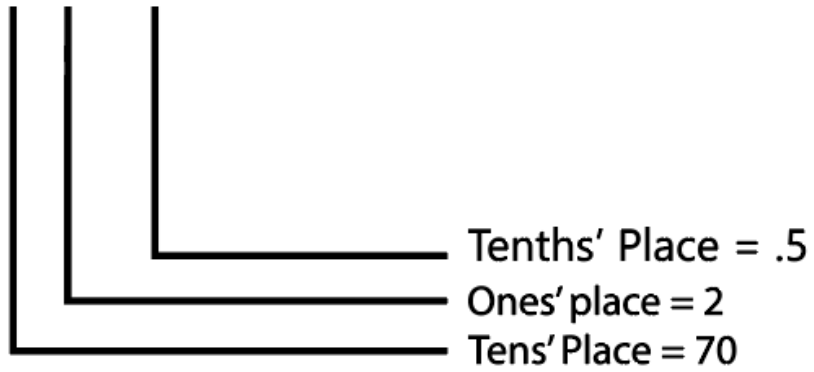
**1. Find the place value of**

- A) 72.5
- B) 365.12
- C) 45.9
- D) 676.458
- E) 98.672

## Solution

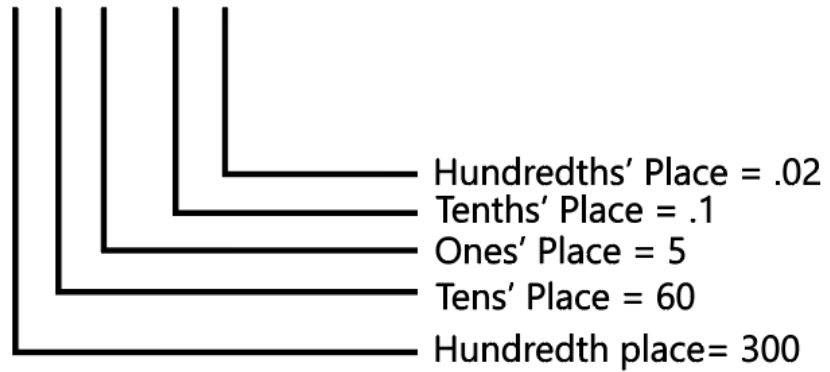
A)

7 2 . 5



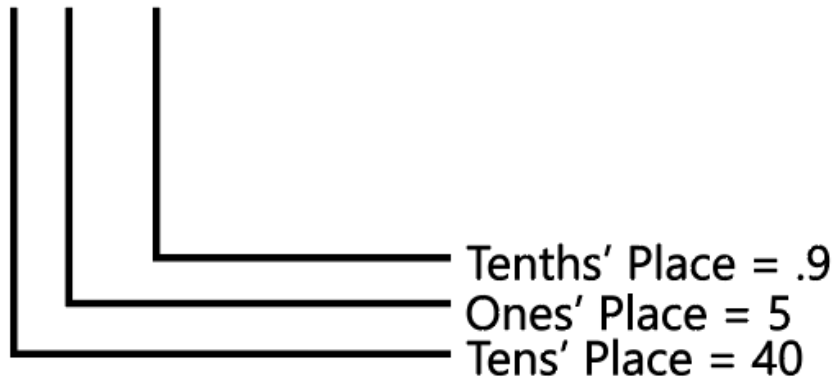
B)

3 6 5 . 1 2



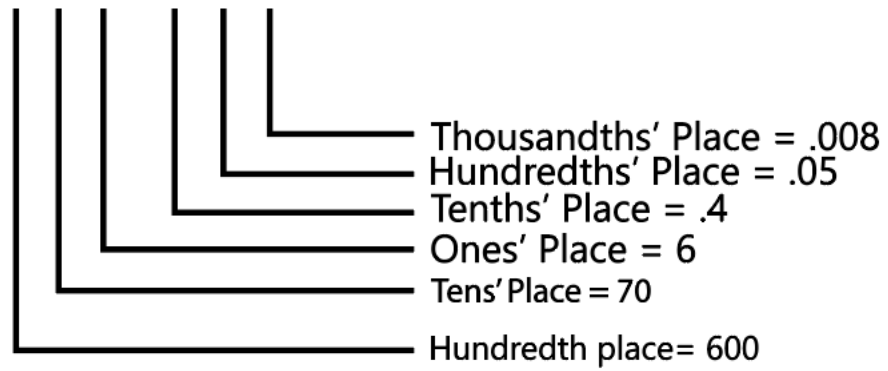
C)

45.9



D)

676.458



E)

