

SESSION	:1
CLASS	: IV
SUBJECT	: MATHEMATICS
CHAPTER NUMBER	: 3
CHAPTER NAME	: ROMAN MUMERALS
SUBTOPIC	: BASICS OF ROMAN NUMERALS

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org

Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

LEARNING OBJECTIVE

 Enable the students to understand the basics of Roman numerals and its uses.



The roman numeral system is the most ancient and a popular from of writing numbers. It was developed by the Romans thousands of year ago.

In this system, 7 letters of the alphabet are used to represent the numbers. The 7 letters along with their corresponding numeric value are given in the table below.



LETTER	NUMERIC VALUE	
I	1	
v	5	
x	10	
L	50	
С	100	
D	500	
Μ	1000	

Remember : There is no letter to represent 'zero' in the roman number system.



Nowadays, roman numbers are used to number the faces of clocks, to list important topics in outlines, etc.

All the numbers are written using either a single letter or a combination of different letters.

Let us now learn how to represent numbers **1** to **30** using the roman numeral system. You will learn more about the remaining letters and their use in higher classes.



Rules For Reading Roman Numerals

Rules – 1 :

If a symbol is repeated more than one time, then we add its numeric value that many times.



Rules For Reading Roman Numerals

Example :

II =	1 + 1 =	2
III =	1 + 1 + 1 =	3
XX =	10 + 10 =	20
XXX =	10 + 10 + 10 =	30

-> Only letters I, X, C and M can be repeated. Letters V, L and D are never repeated. 10 is not written as VV. To represent 10, we write X.



Rules For Reading Roman Numerals

-> A symbol cannot be repeated more than **3 times** in a row.

-> For representing **3**, **III** is acceptable. But for writing **4**, we will not use **IIII**. Similarly, **40** cannot be written as **XXXX**.



Rules For Reading Roman Numerals

Rules – 2 :

When a letter having smaller value is written to the right of letter having greater value, add the numeric value of the smaller letter to the numeric value of the greater letter.



Rules For Reading Roman Numerals

Example :

VI =	V + I =	5 + 1 =	6
XI =	X + I =	10 + 1 =	11
LI =	L + I =	50 + 1 =	51
CI =	<mark>C + I</mark> =	100 + 1 =	101
XV =	X + V =	10 + 5 =	15
XXV =	X + X + V =	10 + 10 + 5 =	25
XXXV =	X + X + X + V =	10 + 10 + 10 + 5 =	35
LX =	L + X =	50 + 10 =	60
LXV =	$\mathbf{L} + \mathbf{X} + \mathbf{V} =$	50 + 10 + 5 =	65



Rules For Reading Roman Numerals

Rules – 3 :

When a letter having smaller value is written to the left of a letter having greater value, subtract the numeric value of the smaller letter from that of the greater letter.



Rules For Reading Roman Numerals

Example :

IV =	5 – 1 =	4
IX =	10 – 1 =	9
XL =	50 - 10 =	40



LEARNING OUTCOME:

Students are able to understand about the basics of Roman numerals.



THANKING YOU ODM EDUCATIONAL GROUP

