CLASS - 3

MATHEMATICS

Chapter - 2

REGIONAL AND ROMAN NUMBERS

Regional and Roman Numbers

We are familiar with the numerals for numbers 1 to 9999. These are 1, 2, 3, 4, ..., 998, ..., 9999. All the numerals are called Hindu-Arabic Numerals or International Numerals. But in some states, numbers formed by digits other than these are also used. For instance, in Uttar Pradesh, numerals formed by digits 0, 1, 2, 3, ..., 9 are commonly used.

Regional and Roman Numbers

The table of Hindi Numerals from one to hundred is given below :

१	२	३	४	५	६	७	८	९	१०
११	१२	१३	१४	१५	१६	१७	१८	१९	२०
२१	२२	२३	२४	२५	२६	२७	२८	२९	३०
३१	३२	३३	३४	३५	३६	३७	३८	३९	४०
४१	४२	४३	४४	४५	४६	४७	४८	४९	५०

Regional and Roman Numbers

The table of Hindi Numerals from one to hundred is given below :

५१	५२	५३	५४	५५	५६	५७	५८	५९	६०
६१	६२	६३	६४	६५	६६	६७	६८	६९	७०
७१	७२	७३	७४	७५	७६	७७	७८	७९	८०
८१	८२	८३	८४	८५	८६	८७	८८	८९	९०
९१	९२	९३	९४	९५	९६	९७	९८	९९	१००

Regional and Roman Numbers

The Table of Urdu Numerals from one to hundred is given below :
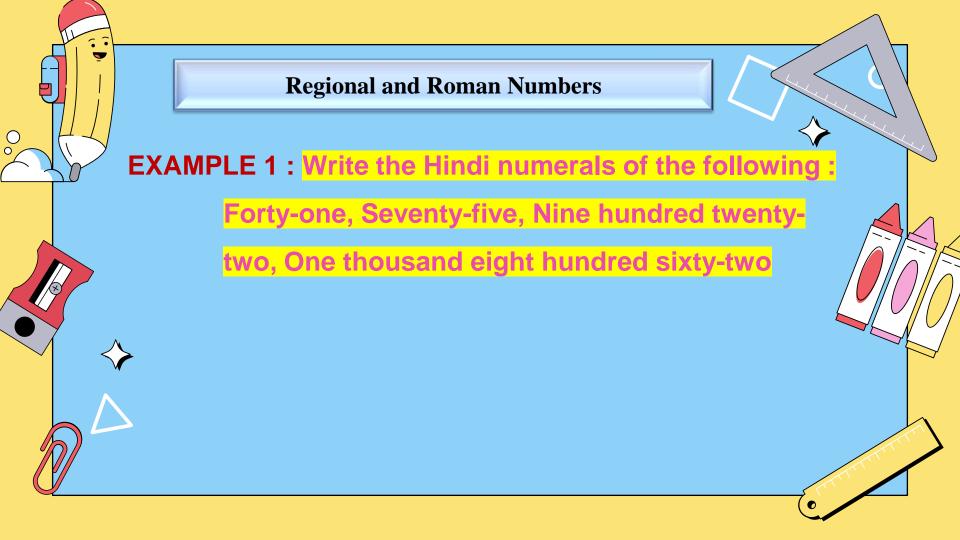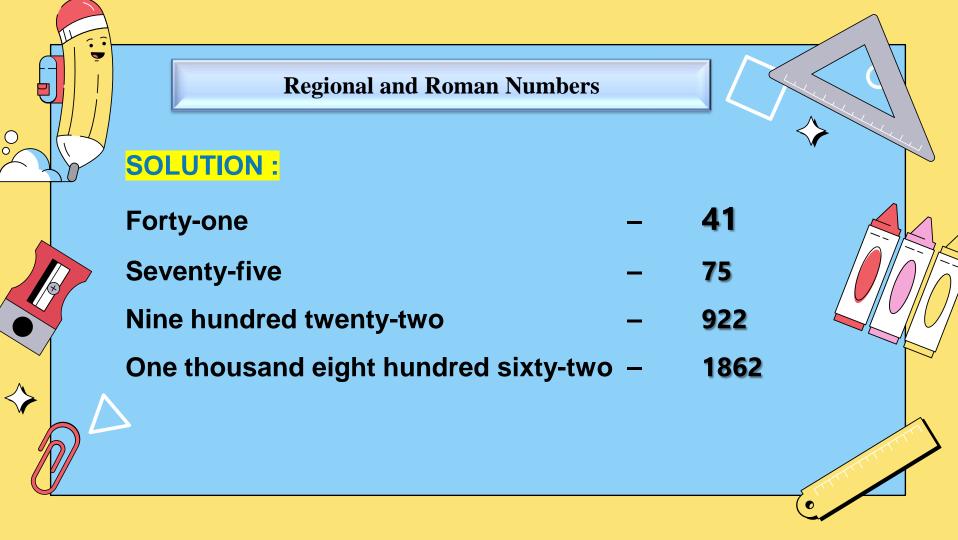
۱	۲	۳	۳	۵	۶	۷	۸	۹	۱۰
۱۱	۱۲	۱۳	۱۳	۱۵	۱۶	۱۷	۱۸	۱۹	۲۰
۲۱	۲۲	۲۳	۲۳	۲۵	۲۶	۲۷	۲۸	۲۹	۳۰
۳۱	۳۲	۳۳	۳۳	۳۵	۳۶	۳۷	۳۸	۳۹	۳۰
۳۱	۳۲	۳۳	۳۳	۳۵	۳۶	۳۷	۳۸	۳۹	۵۰
۵۱	۵۲	۵۳	۵۳	۵۵	۵۶	۵۷	۵۸	۵۹	۶۰
۶۱	۶۲	۶۳	۶۳	۶۵	۶۶	۶۷	۶۸	۶۹	۷۰
۷۱	۷۲	۷۳	۷۳	۷۵	۷۶	۷۷	۷۸	۷۹	۸۰
۸۱	۸۲	۸۳	۸۳	۸۵	۸۶	۸۷	۸۸	۸۹	۹۰
۹۱	۹۲	۹۳	۹۳	۹۵	۹۶	۹۷	۹۸	۹۹	۱۰۰

Number Name	Numeral in Hindi	Numeral in Urdu
One	२	۱
Two	२	۲
Three	३	۳
Four	४	۳
Five	५	۵
Six	६	۶
Seven	७	۷
Eight	८	۸
Nine	९	۹
Ten	१०	۱۰

Regional and Roman Numbers

EXAMPLE 1 : Write the Hindi numerals of the following :
Forty-one, Seventy-five, Nine hundred twenty-two, One thousand eight hundred sixty-two

Regional and Roman Numbers

SOLUTION :

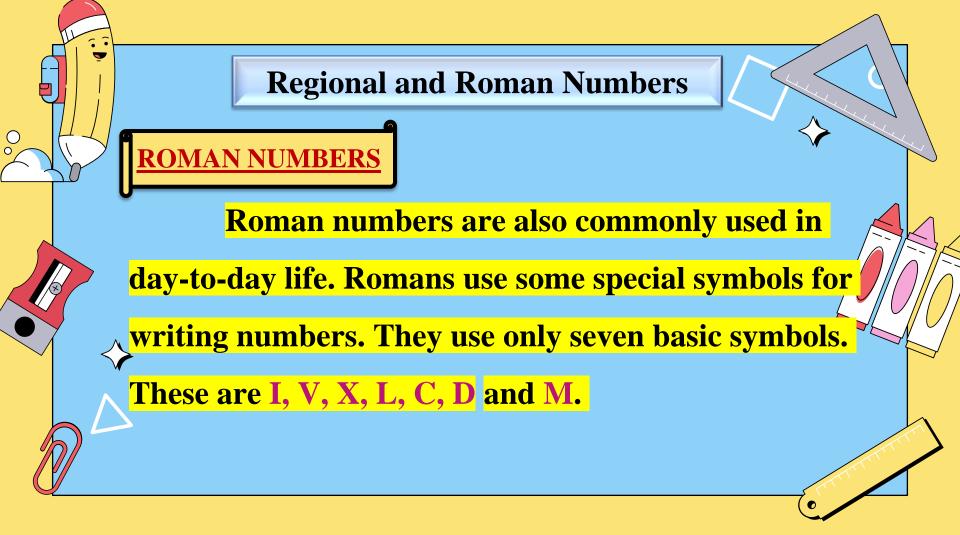|		
Forty-one	–	**41**
Seventy-five	–	**75**
Nine hundred twenty-two	–	**922**
One thousand eight hundred sixty-two	–	**1862**

Regional and Roman Numbers

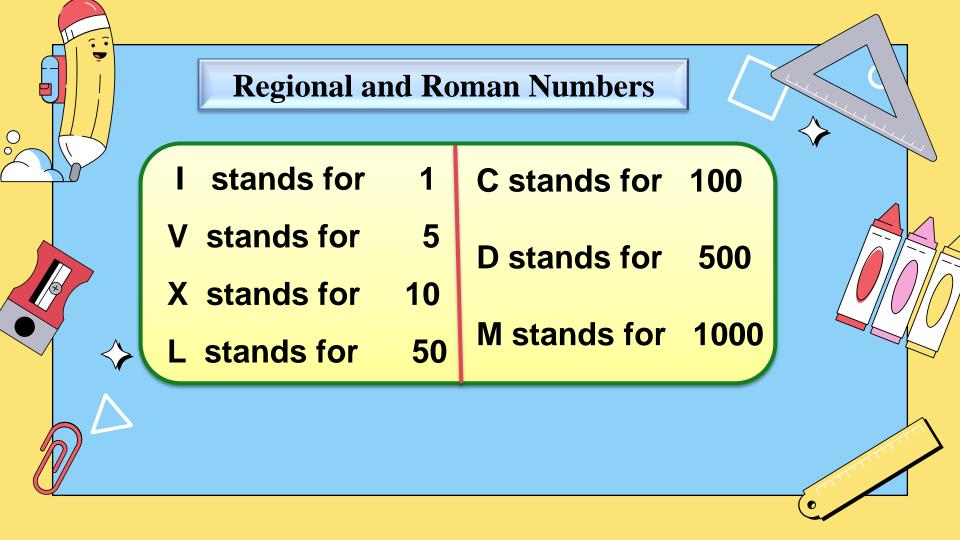**EXAMPLE 2 :** Write the following numerals in words (i.e. number names) :
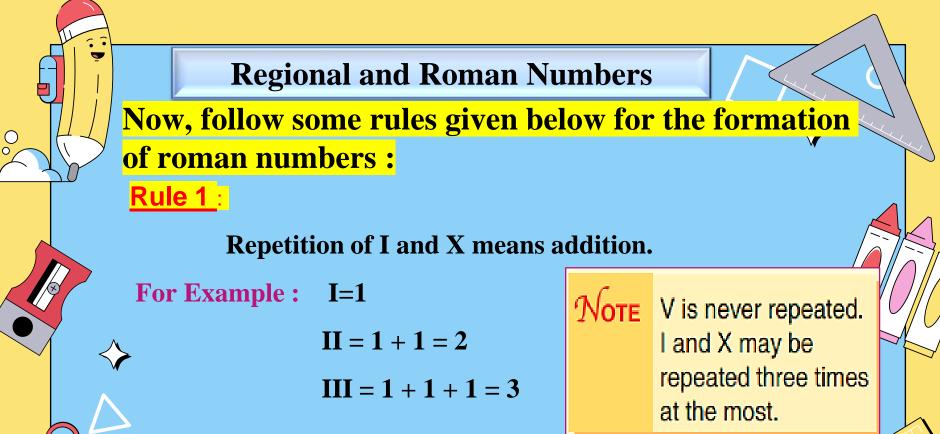69, 757, 3493, 4580

SOLUTION :

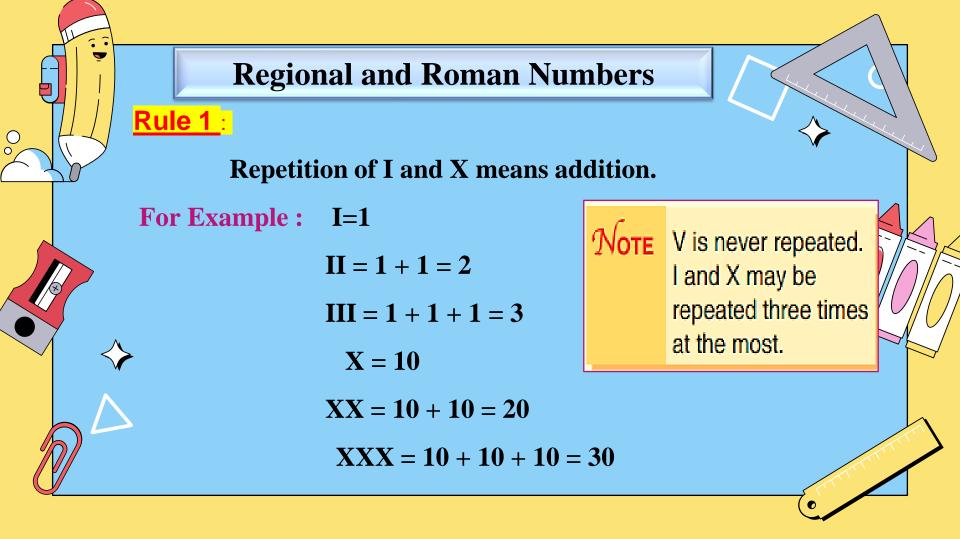69 – Sixty-nine

757 – Seven hundred fifty-seven

3493 – Three thousand four hundred ninety-three

4580 – Four thousand five hundred eighty

Regional and Roman Numbers

ROMAN NUMBERS

Roman numbers are also commonly used in day-to-day life. Romans use some special symbols for writing numbers. They use only seven basic symbols. These are I, V, X, L, C, D and M.

Regional and Roman Numbers

I   stands for   1

V stands for   5

X stands for   10

L stands for   50

C stands for   100

D stands for   500

M stands for   1000

Regional and Roman Numbers

Now, follow some rules given below for the formation of roman numbers :

Rule 1 :

Repetition of I and X means addition.

For Example :   I=1

II = 1 + 1 = 2

III = 1 + 1 + 1 = 3

NOTE V is never repeated. I and X may be repeated three times at the most.

Regional and Roman Numbers

Repetition of I and X means addition.

For Example :   **I = 1**

II = 1 + 1 = 2

III = 1 + 1 + 1 = 3

X = 10

XX = 10 + 10 = 20

XXX = 10 + 10 + 10 = 30

NOTE V is never repeated. I and X may be repeated three times at the most.

Rule 2 :

 If a symbol is written to the right of a greater number, we add the values of both symbols.

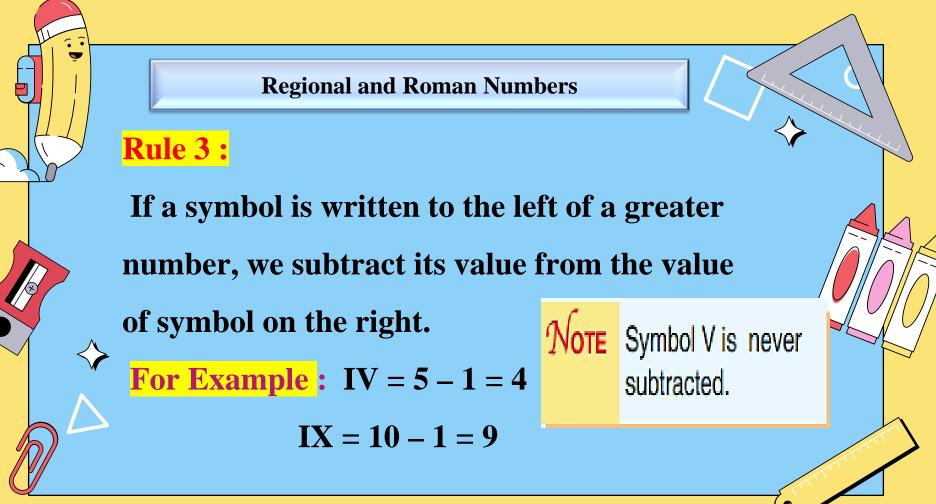**For Example :** VI = 5 + 1 = 6

VII = 5 + 1 + 1 = 7

VIII = 5 + 1 + 1 + 1 = 8

XI = 10 + 1 = 11

XII = 10 + 1 + 1 = 12

XIII = 10 + 1 + 1 + 1 = 13

XV = 10 + 5 = 15

Rule 3 :

If a symbol is written to the left of a greater number, we subtract its value from the value of symbol on the right.

For Example : IV = 5 – 1 = 4

IX = 10 – 1 = 9

NOTE Symbol V is never subtracted.

Regional and Roman Numbers

Using the above rules, we can write numbers 1 to 39 as follows :

Hindu-Arabic Numeral	Roman Numeral	Hindu-Arabic Numeral	Roman Numeral
1	I	11	XI
2	II	12	XII
3	III	13	XIII
4	IV	14	XIV
5	V	15	XV
6	VI	16	XVI
7	VII	17	XVII
8	VIII	18	XVIII
9	IX	19	XIX
10	X	20	XX

Regional and Roman Numbers

Using the above rules, we can write numbers 1 to 39 as follows :

Hindu-Arabic Numeral	Roman Numeral	Hindu-Arabic Numeral	Roman Numeral
21	XXI	31	XXXI
22	XXII	32	XXXII
23	XXIII	33	XXXIII
24	XXIV	34	XXXIV
25	XXV	35	XXXV
26	XXVI	36	XXXVI
27	XXVII	37	XXXVII
28	XXVIII	38	XXXVIII
29	XXIX	39	XXXIX
30	XXX		

Regional and Roman Numbers

VALUE-BASED QUESTIONS

1. Gouri writes a number XVIII and Madhu writes a number XXXI. Who writes greater number ?

2. The no. of students in a class is XVI. Another class has five students more than it. What is the total number of students in two classes ? (Express it in the Roman numeral).

Thank You