

ROMAN NUMBERS →

- ⇒ Roman numerals are a numeral system that originated in ancient Rome.
- ⇒ Ancient Romans used a special method of showing numbers.
- ⇒ The Roman system did not use zero.
- ⇒ The Roman system used 7 letters to write numbers.

We use digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 to write numbers. This is called the Hindu-Arabic (Indian Numeral) system.

Roman Numbers:	I	V	X	L	C	D	M
Values	1	5	10	50	100	500	1000

Numbers from 1 to 39 (Pg no. 19)

The letters I, V and X are used in between 1 to 39.

Roman Numbers	I	II	III	IV	V	VI	VII	VIII	IX	X
Values	1	2	3	4	5	6	7	8	9	10

Rule-1: I and X can be repeated 3 times.

$$I = 1$$

$$X = 10 = 10$$

$$II = 1 + 1 = 2$$

$$XX = 10 + 10 = 20$$

$$III = 1 + 1 + 1 = 3$$

$$XXX = 10 + 10 + 10 = 30$$

Repetition means addition.

Rule-2: I to the left of V or X means subtraction. V can not be repeated.

$$IV = 5 - 1 = 4 \\ (V - I)$$

$$IX = 10 - 1 = 9 \\ (X - I)$$

Rule-3: I to the right of V or X means addition.

$$VI = 5 + 1 = 6 \\ (V + I)$$

$$VII = 5 + 1 + 1 = 7 \\ (V + I + I)$$

$$\text{VIII} = 5 + 1 + 1 + 1 = 8 \\ (\text{V} + \text{I} + \text{I} + \text{I})$$

$$\text{XI} = 10 + 1 = 11 \\ (\text{X} + \text{I})$$

Rule-4: To write numbers greater than 10, they are expanded into tens and ones.

$$11 = 10 + 1 = \text{XI}$$

$$19 = 10 + 9 = \text{XIX}$$

$$12 = 10 + 2 = \text{XII}$$

$$23 = 20 + 3 = \text{XXIII}$$

$$14 = 10 + 4 = \text{XIV}$$

$$27 = 20 + 7 = \text{XXVII}$$

WORKSHEET

A. Write the Roman numbers for the Hindu-Arabic numbers.

1. $7 = \underline{\text{VII}}$

4. $24 = \underline{\text{XXIV}}$

2. $16 = \underline{\text{XVI}}$

5. $29 = \underline{\text{XXIX}}$

3. $30 = \underline{\text{XXX}}$

6. $25 = \underline{\text{XXV}}$

B. Write the Hindu-Arabic numbers for the Roman numbers.

① $\text{VI} = \underline{6}$

④ $\text{XIX} = \underline{19}$

⑦ $\text{XXI} = \underline{21}$

② $\text{II} = \underline{2}$

⑤ $\text{XXIII} = \underline{23}$

⑧ $\text{XXIV} = \underline{24}$

③ $\text{XVI} = \underline{16}$

⑥ $\text{XXV} = \underline{25}$

⑨ $\text{XXVII} = \underline{27}$