

INFORMATION BOOKLET ON TOPIC ROMAN NUMERALS

Instructions for the students:

- Go through the information booklet carefully before solving the worksheet.
- After understanding the information given in the information booklet, solve the worksheet given after this booklet.

Ancient Romans used a special method of showing numbers

Examples: They wrote V instead of 5 And wrote IX instead of 9

The Roman Symbols

Romans Numerals are based on the following symbols:

1	5	10	50	100	500	1000
I	V	X	L	C	D	M

Basic Combinations which can be combined like this:

1	2	3	4	5	6	7	8	9
I	II	III	IV	V	VI	VII	VIII	IX

10	20	30	40	50	60	70	80	90
X	XX	XXX	XL	L	LX	LXX	LXXX	XC

100	200	300	400	500	600	700	800	900
C	CC	CCC	CD	D	DC	DCC	DCCC	CM

Rules While Writing Roman Numerals

1. If a symbol is repeated, its value is added as many times as it occurs. For example, II=2, XX=20 etc.
2. A symbol is not repeated more than three times.
3. The symbols V, L and D are never repeated.
4. The symbols V, L and D are never written to the left of a symbol of greater value i.e. V, L and D are never subtracted. The symbol I can be subtracted from V and X only. The symbol X can be subtracted from L, M, and C only.
5. If a smaller symbol is written to the right of a symbol with greater value, then its value gets added to the value of the greater symbol. For example, VI=5+1=6, XI=11 and so on.
6. If a smaller symbol is written on the left of a symbol with greater value, then its value is subtracted from the value of the greater symbol. IV= 5-1=4, IX=9 etc.

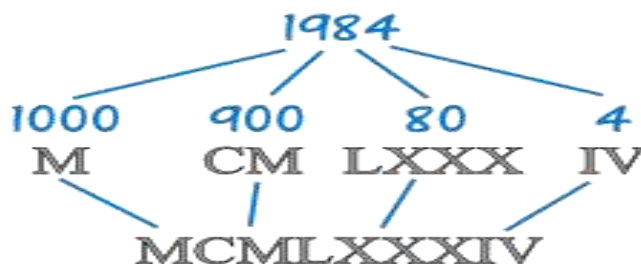
To Remember: **A**fter Larger is **A**dded

7. A symbol cannot be subtracted more than once from a particular symbol of greater value. In other words, we cannot repeat a symbol on the left side of a symbol. Eg, 98 is written as XCVIII and not as IIC.

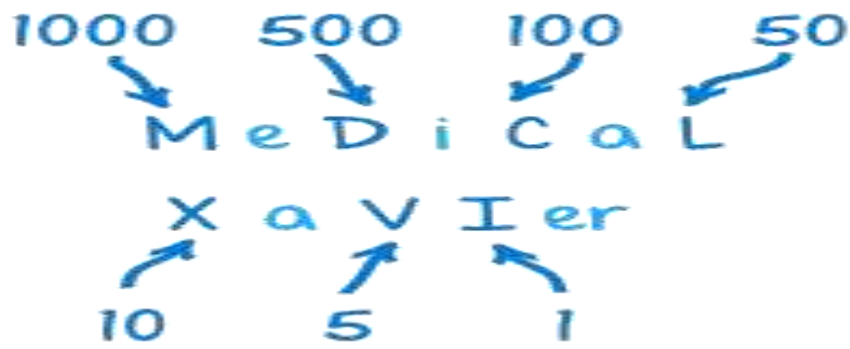
How To Convert Roman Numerals

Break the number into Thousands, Hundreds, Tens and Ones, and write down each in turn.

Example Convert 1984 to Roman Numerals



$1000 + 900 + 80 + 4 = 1984$, so **1984 = MCMLXXXIV**



Think "MeDiCaL XaVier".

It has the roman numerals in descending order from 1000 to 1.

Example 1 : Convert = 2012

Steps	Decimal number (x)	Highest decimal value (v)	Highest roman numeral (n)	Temporary result
1	2012	1000	M	M
2	1012	1000	M	MM
3	12	10	X	MMX
4	2	1	I	MMXI
5	1	1	I	MMXII

Example 2 : Convert = 1996

Steps	Decimal number (x)	Highest decimal value (v)	Highest roman numeral (n)	Temporary result
1	1996	1000	M	M
2	996	900	CM	MCM
3	96	90	XC	MCMXC
4	6	5	V	MCMXCV
5	1	1	I	MCMXCVI

NAME : _____ ROLL No. _____ SECTION _____

GRADE : _____ Signature of the Evaluator _____.

1. Convert the following numbers as Roman numerals.

36	89	97
303	786	999
1200	1947	2020

2. Convert the following Roman numerals in Hindu Arabic Numerals .

MI	XXXIX	DLV
MCD	LXVIII	MXV
MCM	CMLXXXVII	DCCLXXXIX
