### Hindu Numerals replace Roman Numerals

Versatility of Hindu Numerals made it to replace Roman Numerals. Hindu numeral system is a positional decimal numeral system, and is the most common system for the symbolic representation of numbers in the world. It was invented between the 1st and 4th centuries by Indian mathematicians. The system was adopted in Arabic mathematics by the 9th century. Influential were the books of Al-Khwārizmī (On the Calculation with Hindu Numerals, c. 825) and Al-Kindi (On the Use of the Hindu Numerals, c. 830). The system later spread to medieval Europe by the High Middle Ages. The word decimal has its origin in Sanskrit word "dasha" meaning 10.

"We owe a lot to the Indians, who taught us how to count, without which no worthwhile scientific discovery could have been made." – Einstein

#### Part of chooMantra Maths Initiative



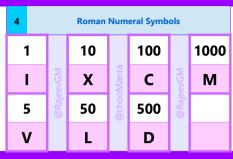
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	5 Roman Numerals Basic Combinations										
tra	HN	1	2	3	4	5	6	7	8	9	10
	RN	-1	Ш	III	IV	٧	VI	VII	VIII	IX	Х
/Jan	@RajeevGM, @chooMantra										
chooMantra	HN	10	20	30	40	50	60	70	80	90	100
	RN	Х	XX	XXX	XL	L	LX	LXX	LXXX	XC	С
	@RajeevGM, @chooMantra										
	HN	100	200	300	400	500	600	700	800	900	1000
	RN	С	CC	CCC	CD	D	DC	DCC	DCCC	CM	М

6 Roman Numerals Rules

1) When a symbol appears after a larger or equal symbol, it is added.

e.g. DX -> 500+10 = 510; VII -> 5+1+1 = 7

2) When a symbol appears before a larger symbol, it is subtracted. (Also, only one number can be subtracted from another.)

**e.g.** CD -> 500-100 = 400; IX -> 10-1 = 9

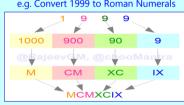
3) Don't use a symbol more than three times in a row.

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7 Convert given number to Roman Numerals

Break the number into 1s, 10s, 100s and 1000s, and write down each in turn.
e.g. Convert 1999 to Roman Numerals



8 Roman Numerals Examples



9 Laplace on Hindu Numerals

"The ingenious method of expressing every possible number using a set of ten symbols (each symbol having a place value and an absolute value) emerged in India. The idea seems os simple nowadays that its significance and profound importance

is no longer appreciated. Its simplicity lies in the way it facilitated calculation and placed arithmetic foremost amongst useful inventions. The importance of this invention is more readily appreciated when one considers that it was beyond the two greatest men of Antiquity, Archimedes and Apollonius."

-Pierre-Simon Laplace

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10 Roman Numerals Techniques & Notes

Mnemonic to remember Roman Numerals Symbols I, V, X, L, C, D and M

If Victor's X-ray Looks Clear Don't Medicate

I, V, X, L, C, D and M stand for 1,5,10,50,100,500,1000

(1, 5, 1\*10, 5\*10, 1\*100, 5\*100, 1\*1000)

I = 1; C is 100 as in a Century; M is 1000 as in Millennium

Note: In earlier Roman Numerals - before introduction of subtraction notation - 4 was written as IIII and not IV

### 1 Alexa Country Capital Quiz



**Country Capital Quiz** 

by RajeevGM

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### 12

#### Instructions to Enable and use Alexa Skill

#### Enable Skill

In Alexa app menu, select Skills Search "Country Capital Quiz RajeevGM". Click on the skill displayed and click on "Enable Skill".



tp://bit.do/AlexaCountryCapitalQuiz. And click on "Enable Skill". You will need to be logged into Alexa account



Use Skill

After enabling the skill, switch on Alexa enabled device. Once ready say "Alexa, Launch Country Capital Quiz"

Give a man a bowl of rice, you feed him for a day. Teach him farming, you feed him for life.