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Roman numerals

The table below equivalent of roman numerals to Arabic numeral

1	2	3	4	5	6	7	8	9
I	II	III	IV	V	VI	VII	VII	IX
10	20	30	40	50	60	70	80	90
X	XX	XXX	XL	L	LX	LXX	LXX	XC
100	200	300	400	500	600	700	800	900
C	CC	CCC	CD	D	DC	DCC	DCC	CM
1000	2000	3000						
M	MM	MMM						

Examples

- i. $39 = XXX + IX = \mathbf{XXXIX}.$
- ii. $246 = CC + XL + VI = \mathbf{CCXLVI}.$
- iii. $789 = DCC + LXXX + IX = \mathbf{DCCLXXXIX}.$
- iv. $2,421 = MM + CD + XX + I = \mathbf{MMCDXXI}.$
- v. $160 = C + LX = \mathbf{CLX}$
 - $207 = CC + VII = \mathbf{CCVII}$
- vi. $1,009 = M + IX = \mathbf{MIX}$
 - $1,066 = M + LX + VI = \mathbf{MLXVI}$

Examples writing years in Roman numbers

- $1776 = M + DCC + LXX + VI = \mathbf{MDCCLXXVI}$
- $1918 = M + CM + X + VIII = \mathbf{MCMXVIII}$
- $1954 = M + CM + L + IV = \mathbf{MCMLIV}$
- $2014 = MM + X + IV = \mathbf{MMXIV}$
- $3,999 = MMM + CM + XC + IX = \mathbf{MMMCMXCIX}$

Common question require a student to change Arabic to Roman numeral and vice versa.

Examples

1. Write XXIV in Hindu Arabic numerals.

Solution

$$XXIV = XX + IV$$

$$= 20 + 4 = 24$$

2. Write 79 in Roman numerals

$$79 = 70 + 9$$

$$LXX + IX$$

$$LXXIX$$

Exercise

1. Write the following Roman number into Hindu Arabic numeral

(i) XLI

(ii) LVI

(iii) LXXXII

(iv) CLXXIV

(v) MI

2. Write the following figures in Roman numeral

(i) 99

(ii) 121

(iii) 26

(iv) 14

(v) 294

Solution

1. Write the following Roman number into Hindu Arabic numeral

- (i) $XLI = 40 + 1 = 41$
- (ii) $LVI = 50 + 6 = 56$
- (iii) $LXXXII = 70 + 2 = 72$
- (iv) $CLXXIV = 100 + 20 + 4 = 124$
- (v) $MI = 1000 + 1 = 1001$

2. Write the following figures in Roman numeral

- (i) $99 = XC + IX = XCIX$
- (ii) $121 = C + XX + I = CXXI$
- (iii) $26 = X + VI = XVI$
- (iv) $14 = X + IV = XIV$
- (v) $294 = CC + XC + IV = CCXCIV$