

Roman Numerals Guide

ROMAN NUMERAL SYMBOLS

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

1 TO 100 CHART

1	I	11	XI	21	XXI	31	XXXI	41	XLII	51	LI	61	LXI	71	LXXI	81	LXXXI	91	XCI
2	II	12	XII	22	XXII	32	XXXII	42	XLII	52	LII	62	LXII	72	LXXII	82	LXXXII	92	XCII
3	III	13	XIII	23	XXIII	33	XXXIII	43	XLIII	53	LIII	63	LXIII	73	LXXIII	83	LXXXIII	93	XCIII
4	IV	14	XIV	24	XXIV	34	XXXIV	44	XLIV	54	LIV	64	LXIV	74	LXXIV	84	LXXXIV	94	XCIV
5	V	15	XV	25	XXV	35	XXXV	45	XLV	55	LV	65	LXV	75	LXXV	85	LXXXV	95	XCV
6	VI	16	XVI	26	XXVI	36	XXXVI	46	XLVI	56	LVI	66	LXVI	76	LXXVI	86	LXXXVI	96	XCVI
7	VII	17	XVII	27	XXVII	37	XXXVII	47	XLVII	57	LVII	67	LXVII	77	LXXVII	87	LXXXVII	97	XCVII
8	VIII	18	XVIII	28	XXVIII	38	XXXVIII	48	XLVIII	58	LVIII	68	LXVIII	78	LXXVIII	88	LXXXVIII	98	XCVIII
9	IX	19	XIX	29	XXIX	39	XXXIX	49	XLIX	59	LIX	69	LXIX	79	LXXIX	89	LXXXIX	99	XCIX
10	X	20	XX	30	XXX	40	XL	50	L	60	LX	70	LXX	80	LXXX	90	XC	100	C

HOW ROMAN NUMERALS WORK

1. Additive Rule

When a symbol of equal or smaller value follows another symbol, add the values.

Examples:

$$VI = 5 + 1 = 6$$

$$LX = 50 + 10 = 60$$

2. Subtractive Rule

When a smaller value symbol comes before a larger value symbol, subtract the smaller from the larger. Use subtractive pairs only as shown:

I before V (4)	I before X (9)	X before L (40)	X before C (90)	C before D (400)	C before M (900)
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Examples: $IV = 5 - 1 = 4$

$$IX = 10 - 1 = 9$$

$$XL = 50 - 10 = 40$$

$$CM = 1000 - 100 = 900$$

3. Repetition Rule

I, X, C, and M may be repeated up to three times in a row.

V, L, and D are not repeated.

Examples: $III = 3$

$$XXX = 30$$

$$CCC = 300 \text{ (not CCCC)}$$

WORKED EXAMPLES

1. 1987

$$1000 + 900 + 80 + 7$$

$$= M + CM + LXXX + VII$$

MCMLXXXVII

2. 2024

$$2000 + 20 + 4$$

$$= MM + XX + IV$$

MMXXIV

3. 944

$$900 + 40 + 4$$

$$= CM + XL + IV$$

CMXLIV

4. 1666

$$1000 + 600 + 60 + 6$$

$$= M + DC + LX + VI$$

MDCLXVI

5. 73

$$50 + 20 + 3$$

$$= L + XX + III$$

LXXIII

6. 3999

$$3000 + 900 + 90 + 9$$

$$= MMM + CM + XC + IX$$

MMMCMXCIX

NOTES