

Liczby w systemie rzymskim do 3000

- Liczby w **systemie rzymskim** zapisujemy znakami I, V, X, L, C, D, M. Ich wartości to

$$I = 1, \quad V = 5, \quad X = 10, \quad L = 50, \quad C = 100, \quad D = 500, \quad M = 1000$$

- Wartość liczby w **systemie rzymskim** ustalamy dodając wartość znaków. Wyjątkiem są liczby, w których znak o mniejszej wartości stoi przed znakiem o większej wartości.

$$IV = 5 - 1 = 4$$

$$IX = 10 - 1 = 9$$

$$XL = 50 - 10 = 40$$

$$XC = 100 - 10 = 90$$

$$CD = 500 - 100 = 400$$

$$CM = 1000 - 100 = 900$$

Przykłady:

I	= 1	
II	= 2	(I + I = 1 + 1)
III	= 3	(I + I + I = 1 + 1 + 1)
IV	= 4	(IV = 5 - 1)
V	= 5	
VI	= 6	(V + I = 5 + 1)
VII	= 7	(V + I + I = 5 + 1 + 1)
VIII	= 8	(V + I + I + I = 5 + 1 + 1 + 1)
IX	= 9	(IX = 10 - 1)
X	= 10	
XI	= 11	(X + I = 10 + 1)
XII	= 12	(X + I + I = 10 + 1 + 1)
XIII	= 13	(X + I + I + I = 10 + 1 + 1 + 1)
XIV	= 14	(X + IV = 10 + 5 - 1)
XV	= 15	(X + V = 10 + 5)
XVI	= 16	(X + V + I = 10 + 5 + 1)
XVII	= 17	(X + V + I + I = 10 + 5 + 1 + 1)
XVIII	= 18	(X + V + I + I + I = 10 + 5 + 1 + 1 + 1)
XIX	= 19	(X + IX = 10 + 10 - 1)
XX	= 20	(X + X = 10 + 10)
XXIII	= 23	(X + X + I + I + I = 10 + 10 + 1 + 1 + 1)
XXX	= 30	(X + X + X = 10 + 10 + 10)
XXXV	= 35	(X + X + X + V = 10 + 10 + 10 + 5)
XL	= 40	(XL = 50 - 10)

XLIV	= 44	(XL + IV = 50 - 10 + 5 - 1)
L	= 50	
LI	= 51	(L + I = 50 + 1)
LX	= 60	(L + X = 50 + 10)
LXVIII	= 68	(L + X + V + I + I + I = 50 + 10 + 5 + 1 + 1 + 1)
LXX	= 70	(L + X + X = 50 + 10 + 10)
LXXII	= 72	(L + X + X + I + I = 50 + 10 + 10 + 1 + 1)
LXXX	= 80	(L + X + X + X = 50 + 10 + 10 + 10)
LXXXIV	= 84	(L + X + X + X + IV = 50 + 10 + 10 + 10 + 5 - 1)
XC	= 90	(XC = 100 - 10)
XCIX	= 99	(XC + IX = 100 - 10 + 10 - 1)
C	= 100	
CXX	= 120	(C + X + X = 100 + 10 + 10)
CXLI	= 141	(C + XL + I = 100 + 50 - 10 + 1)
CC	= 200	(C + C = 100 + 100)
CCL	= 250	(C + C + L = 100 + 100 + 50)
CCXXXV	= 235	(C + C + X + X + X + V = 100 + 100 + 10 + 10 + 10 + 5)
CCC	= 300	(C + C + C = 100 + 100 + 100)
CCCXC	= 390	(C + C + C + XC = 100 + 100 + 100 + 100 - 10)
CCCI	= 301	(C + C + C + I = 100 + 100 + 100 + 1)
CD	= 400	
CDLXXX	= 480	(CD + L + X + X + X = 500 - 100 + 50 + 10 + 10 + 10)
CDXII	= 412	(CD + X + I + I = 500 - 100 + 10 + 1 + 1)
D	= 500	
DXL	= 540	(D + XL = 500 + 50 - 10)
DLIX	= 559	(D + L + IX = 500 + 50 + 9)
DC	= 600	(D + C = 500 + 100)
DCXXX	= 630	(D + C + X + X + X = 500 + 100 + 10 + 10 + 10)
DCXLIV	= 644	(D + C + XL + IV = 500 + 100 + 50 - 10 + 5 - 1)
DCC	= 700	(D + C + C = 500 + 100 + 100)
DCCX	= 710	(D + C + C + X = 700 + 100 + 100 + 10)
DCCLXI	= 761	(D + C + C + L + X + I = 500 + 100 + 100 + 50 + 10 + 1)
DCCC	= 800	(D + C + C + C = 500 + 100 + 100 + 100)
DCCCL	= 850	(D + C + C + X + L = 700 + 100 + 100 + 50)

DCCCVI	= 806	$(D + C + C + C + V + I = 500 + 100 + 100 + 100 + 5 + 1)$
CM	= 900	
CMLX	= 960	$(CM + L + X = 1000 - 100 + 50 + 10)$
CMLXIII	= 963	$(CM + L + X + I + I + I = 1000 - 100 + 50 + 10 + 1 + 1 + 1)$
M	= 1000	
MDCC	= 1700	$(M + D + C + C = 1000 + 500 + 100 + 100)$
MCDXXX	= 1430	$(M + CD + X + X + X = 1000 + 500 - 100 + 10 + 10 + 10)$
MCDLIV	= 1454	$(M + CD + L + IV = 1000 + 500 - 100 + 50 + 5 - 1)$
MM	= 2000	$(M + M = 1000 + 1000)$
MMD	= 2500	$(M + M + D = 1000 + 1000 + 500)$
MMCDXX	= 2420	$(M + M + CD + X + X = 1000 + 1000 + 500 - 100 + 10 + 10)$
MMCLII	= 2152	$(M + M + C + L + I + I = 1000 + 1000 + 100 + 50 + 1 + 1)$
MMM	= 3000	$(M + M + M = 1000 + 1000 + 1000)$