

# Roman Numerals

These symbols are the building blocks of Roman numerals:

I, V, X, L, C, D and M

Do you know the value of each letter?

In our number system (the Arabic numeral system), there are ten different digits, (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) and the place of these digits in the number determines its value. For example, 2 on its own means 'two', but in 3240, the '2' now means "two hundred". In this way, any number can be written down, using only ten digits.

Roman numerals have a set of rules which allow you to write down any number:

1. If a smaller numeral comes after a larger numeral, add the smaller number to the larger number;
2. If a smaller numeral comes before a larger numeral, subtract the smaller number from the larger number;
3. Do not use the same symbol more than three times in a row.

Can you use these rules to construct and decipher Roman numerals?

Try converting the following Roman numerals into Arabic numerals:

III  
IV  
XVIII  
XIX  
MCMLXXVI  
MMXXIII  
MCMLXII

Now try converting the following into Roman numerals:

55  
86  
two thousand five hundred and ninety-two  
913

Can you work out how to write '1984' in Roman numerals?

'1984' written in Roman numerals has more numerals than when it is written in Arabic numerals. However, this will not always be the case.

Can you find some examples when the number of Roman numerals is fewer than the number of Arabic numerals for the same number?