


LO: We are learning to recognise, use and calculate with Roman Numerals

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



Mathematical Talk

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Why is there no zero in Roman Numerals?

Do you notice any patterns in the Roman number system?

How can you check you have represented the Roman Numeral correctly?

Can you use numbers you know, such as 1, 10 and 100 to help you?

Discuss these questions with someone at home and/or record your written answers.

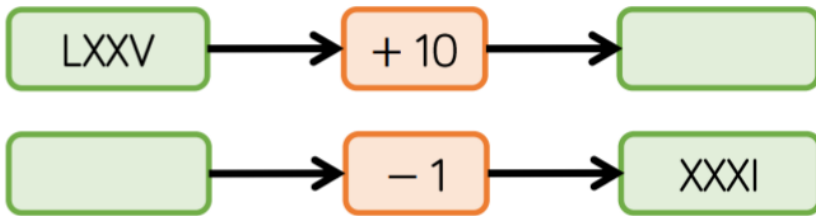
Varied Fluency

Each diagram shows a number in numerals, words and Roman Numerals.

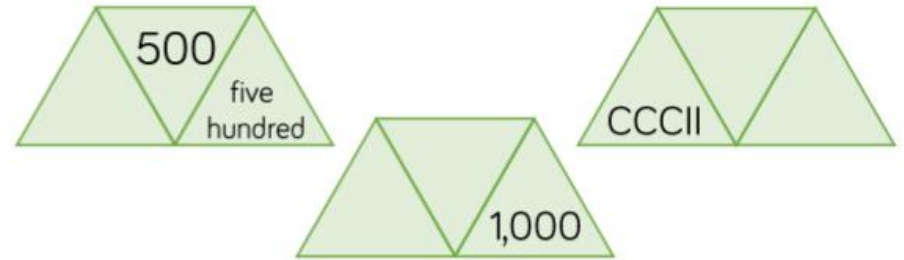


Complete the diagrams.

Complete the function machines.

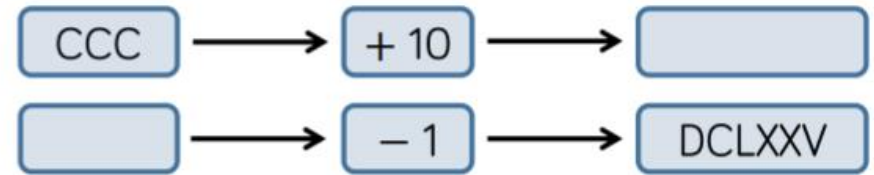


Each diagram shows a number in digits, words and Roman Numerals.



Complete the diagrams.

Complete the function machines.



Reasoning and Problem Solving

Solve the following calculation:

$$XIV + XXXVI = \underline{\quad}$$

How many other calculations, using Roman Numerals, can you write to get the same total?

Mo says:

In the 10 times table, all the numbers have a zero. Therefore, in Roman Numerals all multiples of 10 have an X



Research and give examples to prove whether or not Mo is correct.

Solve

$$CCCL + CL =$$

How many calculations, using Roman Numerals, can you write to get the same total?

Here is part of a Roman Numerals hundred square.

Complete the missing values.

XLIV	XLV		XLVII
		LVI	LVII
LXIV		LXVI	LXVII

What patterns do you notice?

Roman Numerals 1 to 30 Mosaic

Work out the numbers to reveal the hidden picture. Each answer has a special colour.

red = 10 - 15 grey = 16 - 20 white (blank) = 21 - 30 gold = any other number

XXI	XXVII	XXIII	XIII	XIV	X	XXV	XXII	XXVI
XXIV	XXX	XIV	XI	XII	XIV	XV	XXVII	XXIV
XXII	X	V	II	IX	VII	VI	XI	XXX
XV	I	XXII	XXVI	III	XXVII	XXII	IV	XIII
XXV	XXIII	XXIX	XVII	XX	XIX	XXVI	XXIX	XXV
XXII	XXVIII	XVI	XIX	XVII	XX	XVIII	XXX	XXI
XXVI	XVII	XIX	XVIII	XIX	XVII	XX	XVI	XXIV
XXII	XVIII	XVI	XXIII	XXI	XXIV	XIX	XVII	XXIII
XXIV	XIX	XVII	XXIX	XXX	XXVI	XVIII	XIX	XXI
XXI	XVI	XVIII	XXIII	XXIX	XXII	XVI	XX	XXIX

Challenge: How many possible answers are there that could be shaded gold? Which number has not been included?

Roman Numerals 1 to 50 Mosaic

Work out the numbers to reveal the hidden picture. Each answer has a special colour.

grey = 11 - 20 gold = 21 - 30 white (blank) = 31 - 40 black = 50 red = any other number

XXXI	XXXV	V	II	XXV	XLIX	XLIV	XXXII	XL
XXXVI	XLV	XLIX	XLI	XXI	XLVI	XLIX	XLVIII	XXXIV
XXXVIII	XXI	XLIII	XLV	XXIV	V	II	XXVIII	XXXII
XXXIX	IX	XXVI	XLVII	XXIII	XLIX	XXIX	XLIX	XXXVIII
XXXIV	III	XLVIII	XV	XII	XVI	XLVIII	XLV	XXXII
XXXVII	XXV	XXIII	XX	L	XIII	XXIX	XXV	XXXIV
XXXIX	XLIII	XLIX	XVII	XIV	XIX	XLVI	XLIX	XXXIX
XL	XLV	XXV	XLIX	XXVI	XLI	XXVII	XLI	XXXV
XXXII	XXI	XLII	XLVII	XXII	XLV	IX	XXVII	XXXI
XXXIX	XXXII	XLII	XLIX	XXX	XLIV	III	XXXII	XL

Challenge: How many possible answers are there that could be shaded grey? Which numbers have not been included?