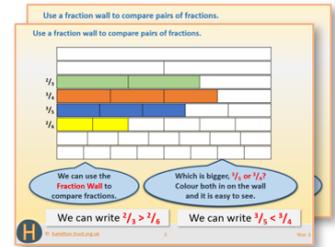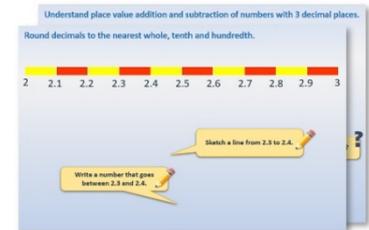# Week 12, Day 4
Read/write Roman numerals to 1000
Each day covers one maths topic. It should take you about 1 hour or just a little more.
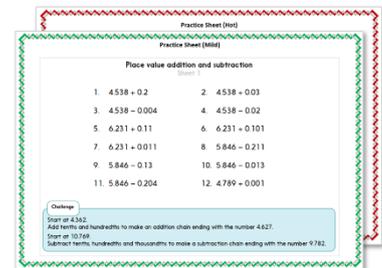
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.
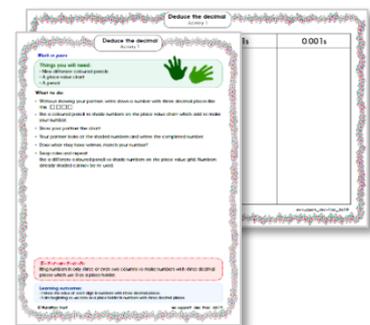
   OR start by carefully reading through the **Learning Reminders**.

2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.

3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**

4. Think you've cracked it? Whizzed through the Practice Sheets?
   Have a go at the **Investigation**…

Learning Reminders

Read/write Roman numerals to 1000 (M).

Remember how to write numbers 1-10 using Roman numerals...

Multiples of 10.

The Romans combined 10s and 1s to write numbers. For example 28 is written XXVIII.

Write 41, 54 and 99 using Roman numerals.

I	X
II	XX
III	XXX
IV	XL
V	L
VI	LX
VII	LXX
VIII	LXXX
IX	XC
X	C

Answers

99: XCIX
54: LIV
41: XLI

Learning Reminders

Read/write Roman numerals to 1000 (M).

The Romans used the letters C, D and M to write the multiples of 100.

Here are some Roman numbers: CCXI, CDXXVII and DCCLV. Write down how we would usually write these numbers.

I	X	C
II	XX	CC
III	XXX	CCC
IV	XL	CD
V	L	D
VI	LX	DC
VII	LXX	DCC
VIII	LXXX	DCCC
IX	XC	CM
X	C	M

Answers

DCCLV: 755
CDXXVII: 427
CCXI: 211

Practice Sheet Mild
Roman numerals

Write the next two numbers in each sequence.

I.	XXII	XXIII	XXIV	_____	_____
II.	LI	LII	LIII	_____	_____
III.	XXVII	XXVIII	XXIX	_____	_____
IV.	XLVI	XLVII	XLVIII	_____	_____
V.	LXV	LXVI	LXVII	_____	_____
VI.	CI	CII	CIII	_____	_____
VII.	CXXV	CXXVI	CXXVII	_____	_____
VIII.	CCXVII	CCXVIII	CCXIX	_____	_____
IX.	CCLX	CCLXI	CCLXII	_____	_____

Challenge

Make up two more increasing sequences.

Practice Sheet Hot
Roman numerals

Write the next two numbers in each sequence.

I.	XXII	XXIII	XXIV	_____	_____
II.	LI	LII	LIII	_____	_____
III.	XXVII	XXVIII	XXIX	_____	_____
IV.	XLVI	XLVII	XLVIII	_____	_____
V.	LXV	LXVI	LXVII	_____	_____
VI.	CI	CII	CIII	_____	_____
VII.	CXXV	CXXVI	CXXVII	_____	_____
VIII.	CCXVII	CCXVIII	CCXIX	_____	_____
IX.	CCLX	CCLXI	CCLXII	_____	_____
X.	DXXII	DXXIII	DXXIV	_____	_____
XI.	CDXV	CDXVI	CDXVII	_____	_____
XII.	DCXI	DCXII	DCXIII	_____	_____
XIII.	MII	MI	M	_____	_____

Challenge

Make up three more decreasing sequences. Can your partner find the next two numbers?

Practice Sheets Answers

Roman numerals (mild)

I.	XXII	XXIII	XXIV	XXV	XXVI
II.	LI	LII	LIII	LIV	LV
III.	XXVII	XXVIII	XXIX	XXX	XXXI
IV.	XLVI	XLVII	XLVIII	XLIX	L
V.	LXV	LXVI	LXVII	LXVIII	LXIX
VI.	CI	CII	CIII	CIV	CV
VII.	CXXV	CXXVI	CXXVII	CXXVIII	CXXIX
VIII.	CCXVII	CCXVIII	CCXIX	CCXX	CCXXI
IX.	CCLX	CCLXI	CCLXII	CCLXIII	CCLXIV

Roman numerals (hot)

I.	XXII	XXIII	XXIV	XXV	XXVI
II.	LI	LII	LIII	LIV	LV
III.	XXVII	XXVIII	XXIX	XXX	XXXI
IV.	XLVI	XLVII	XLVIII	XLIX	L
V.	LXV	LXVI	LXVII	LXVIII	LXIX
VI.	CI	CII	CIII	CIV	CV
VII.	CXXV	CXXVI	CXXVII	CXXVIII	CXXIX
VIII.	CCXVII	CCXVIII	CCXIX	CCXX	CCXXI
IX.	CCLX	CCLXI	CCLXII	CCLXIII	CCLXIV
X.	DXXII	DXXIII	DXXIV	DXXV	DXXVI
XI.	CDXV	CDXVI	CDXVII	CDXVIII	CDXIX
XII.	DCXI	DCXII	DCXIII	DCXIV	DCXV
XIII.	MII	MI	M	CMXCIX	CMXCVIII

Work in pairs

Things you will need:
• Roman numerals 1 to 100 blank grid
• Roman numerals 1 to 100 reference grid

What to do:

Group A
52 63 65 71 75 84 92

Group B
58 67 66 79 78 89 99

• Choose three numbers from **Group A** to have a go at writing as Roman numerals.

• How did you get on?
  If you found it tricky, do some more from Group A, but if you're feeling confident have a go with at least four of the numbers from Group B.

• Now you should be ready to fill in the rest of your 1 to 100 grid... Give it a go!

52 = LII
65 =

S-t-r-e-t-c-h:
If you can write Roman numerals up to 100, writing the numbers 101 to 200 should be a piece of cake...
Grab a blank 100-square and off you go...!

Learning outcomes:
• I can read and write Roman numerals to 100.
• I am beginning to write Roman numerals for numbers >100.

Roman numerals 1 to 100

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

I	II	III	IV	V	VI	VII	VIII	IX	X
XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX
XXI	XXII	XXIII	XXIV	XXV	XXVI	XXVII	XXVIII	XXIX	XXX
XXXI	XXXII	XXXIII	XXXIV	XXXV	XXXVI	XXXVII	XXXVIII	XXXIX	XL
XLI	XLII	XLIII	XLIV	XLV	XLVI	XLVII	XLVIII	XLIX	L
LI	LII	LIII	LIV	LV	LVI	LVII	LVIII	LIX	LX
LXI	LXII	LXIII	LXIV	LXV	LXVI	LXVII	LXVIII	LXIX	LXX
LXXI	LXXII	LXXIII	LXXIV	LXXV	LXXVI	LXXVII	LXXVIII	LXXIX	LXXX
LXXXI	LXXXII	LXXXIII	LXXXIV	LXXXV	LXXXVI	LXXXVII	LXXXVIII	LXXXIX	XC
XCI	XCII	XCIII	XCIV	XCV	XCVI	XCVII	XCVIII	XCIX	C

Investigation
Martian numbers

Imagine that there are Martians! They have only one hand... and it has three fingers.

1. Write the first thirty numbers first as Arabic numbers (normal numbers!) then as Roman numerals.
2. Now we are going to write each of these as Martian numbers!

> Martians only have 3 fingers so they count like this.
>
> | | | |
> |---|---|---|
> | 0 | 1 | 2 |
> | 10 | 11 | 12 |
> | 20 | 21 | 22 |
> | 100 | 101 | 102 |
> | 110 | 111 | 112 |
> | 120 | 121 | 122 |
> | 200 | 201 | and so on |
>
> So the Martian way of writing four is 11.
> The Martian way of writing ten is 101.
> The Martian way of writing sixteen is 121.

3. Try to write the next ten numbers.
   Remember you cannot write any digit above 2!
4. What will happen when we get to the number after 222?

Compare the Arabic numbers, the Martian numbers and the Roman numerals.
What digits are missing from the Martian numbers?
What very important digit is missing from the Roman numerals?

Can you write the following numbers as Arabic numbers, as Roman numbers and as Martian numbers?

Arabic numbers	Roman numerals	Martian numbers
0		0
1	I	1
2	II	2
3	III	10
4	IV	11
...		

The day and month of your birthday.

James Bond's number

The number of children in your class

Think of some more special numbers to write in three different ways.

Challenge

Can you perform a Martian addition?

$$
\begin{array}{r}
1\ 2\ 1 \\
+\ 1\ 2\ 2 \\
\hline
\end{array}
$$

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