## Roman numerals

Complete the sheet. If you do not have access to a printer please work on paper.

The Romans used these capital letters:

1

5

10
L
50
C
100
D
500
M
1000

These letters were put together to form all the numbers, like this:
$\mathrm{I}=1$
II $=2$
III $=3$
IV $=4$
$V=5$
$\mathrm{VI}=6$
$\mathrm{VII}=7$
VIII $=8$
IX $=9$

There are two rules you need to know:

1. put a letter after a larger one means you add it.
2. put a letter before a larger one means you take it away.

Work out what numbers these Roman numerals represent:

1. $\mathrm{VIII}=\square$
2. $\mathrm{IV}=\square$
3. $\mathrm{XII}=\square$
4. $\mathrm{XV}=\square$
5. $\mathrm{LX}=\square$
6. $\mathrm{XL}=\square$
7. $\mathrm{XIV}=\square$
8. $\mathrm{XVII}=\square$

Write these numbers in Roman numerals:
9. $13=\square$
10. $22=\square$
$11.30=\square$
$12.49=\square$
$13.25=\square$
14. $101=\square$
$15.99=\square$
16. $90=\square$
a)

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


Complete the diagrams.
b)

Complete the function machines.

c)

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?

