

Reasoning and Problem Solving

Step 2: Roman Numerals

National Curriculum Objectives:

Mathematics Year 5: (5N3b) [Read Roman numerals to 1,000 \(M\) and recognise years written in Roman numerals](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Complete addition and subtraction calculations using numbers and Roman numerals up to 100.

Expected Complete addition and subtraction calculations using numbers and Roman numerals up to 1,000.

Greater Depth Complete addition and subtraction calculations using only Roman numerals up to 1,000.

Questions 2, 5 and 8 (Reasoning)

Developing Use knowledge of Roman numerals to 100 to work out the value of Roman numerals beyond 100 (multiples of 10).

Expected Use knowledge of Roman numerals to 1,000 to work out the value of Roman numerals beyond 1,000 (multiples of 10).

Greater Depth Use knowledge of Roman numerals to 1,000 to work out the value of Roman numerals beyond 1,000.

Questions 3, 6 and 9 (Problem Solving)

Developing Arrange 3 cards to create different Roman numerals to 100. Find all the possibilities.

Expected Arrange 4 cards to create different Roman numerals to 1,000. Find all the possibilities.

Greater Depth Arrange 5 cards to create different Roman numerals to 1,000. Find all the possibilities.

More [Year 5 Place Value](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Roman Numerals

1a. Complete the calculations. Write the answers in Roman numerals.

$LX + 20 =$

$90 - XXXVI =$

$XCI + 8 =$



PS

Roman Numerals

1b. Complete the calculations. Write the answers in Roman numerals.

$XLIX - 30 =$

$85 + XIII =$

$74 - XXIV =$



PS

2a. Using your knowledge of Roman numerals to 100, work out the value of the Roman numeral below.

CC

Explain your reasoning.



R

2b. Using your knowledge of Roman numerals to 100, work out the value of the Roman numeral below.

CL

Explain your reasoning.



R

3a. Arrange the cards below to create different Roman numerals. Each card may only be used once.

X

L

I

Find all the possibilities.



PS

3b. Arrange the cards below to create different Roman numerals. Each card may only be used once.

V

X

I

Find all the possibilities.



PS

Roman Numerals

4a. Complete the calculations. Write the answers in Roman numerals.

$$200 + CCI = \boxed{}$$

$$DC - 45 = \boxed{}$$

$$CCCL + 150 = \boxed{}$$



PS

Roman Numerals

4b. Complete the calculations. Write the answers in Roman numerals.

$$485 - CCXV = \boxed{}$$

$$241 + DCXXXIV = \boxed{}$$

$$CMXI - 303 = \boxed{}$$



PS

5a. Using your knowledge of Roman numerals to 1,000, work out the value of the Roman numeral below.

MMM

Explain your reasoning.



R

5b. Using your knowledge of Roman numerals to 1,000, work out the value of the Roman numeral below.

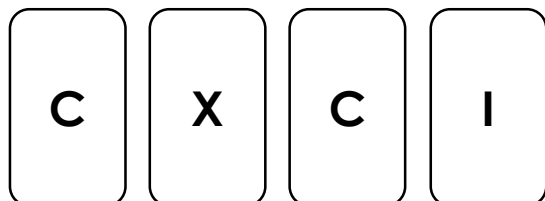
MLX

Explain your reasoning.



R

6a. Arrange the cards below to create different Roman numerals. Each card may only be used once.

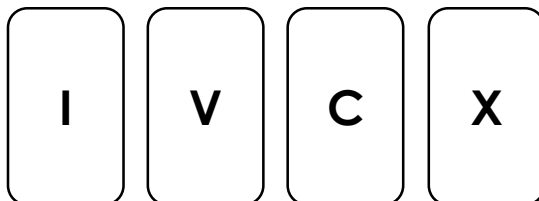


Find all the possibilities.



PS

6b. Arrange the cards below to create different Roman numerals. Each card may only be used once.



Find all the possibilities.



PS

Roman Numerals

7a. Complete the calculations. Write the answers in Roman numerals.

$$CCCXII + CVI =$$

$$DCCXXI - CCXV =$$

$$CDXCI + CCCLX =$$



PS

Roman Numerals

7b. Complete the calculations. Write the answers in Roman numerals.

$$M - DXLVIII =$$

$$DCXXIX + CXIII =$$

$$CMVI - CDXIV =$$



PS

8a. Using your knowledge of Roman numerals to 1,000, work out the value of the Roman numeral below.

MCDIX

Explain your reasoning.



R

8b. Using your knowledge of Roman numerals to 1,000, work out the value of the Roman numeral below.

MMDCII

Explain your reasoning.



R

9a. Arrange the cards below to create different Roman numerals. Each card may only be used once.

I

X

C

I

D

Find all the possibilities.



PS

9b. Arrange the cards below to create different Roman numerals. Each card may only be used once.

X

V

C

I

C

Find all the possibilities.



PS

Reasoning and Problem Solving Roman Numerals

Developing

- 1a. LXXX, LIV, XCIX
2a. C = 100; CC = 200
3a. 3 possibilities: XLI (41); LXI (61); LIX (59)

Expected

- 4a. CDI, DLV, D
5a. M = 1,000; MMM = 3,000
6a. 3 possibilities: CXCI (191); CCIX (209);
CCXI (211)

Greater Depth

- 7a. CDXVIII, DVI, DCCCLI
8a. M = 1,000; CD = 400; IX = 9;
MCDIX = 1,409
9a. 3 possibilities: CDXII (412); DCXII (612);
DXCII (592)

Reasoning and Problem Solving Roman Numerals

Developing

- 1b. XIX, XCVIII, L
2b. C = 100; L = 50; CL = 150
3b. 2 possibilities: XIV (14); XVI (16)

Expected

- 4b. CCLXX, DCCCLXXV, DCVIII
5b. M = 1,000; L = 50; X = 10; MLX = 1,060
6b. 4 possibilities: CXIV (114); CXVI (116);
XCIV (94); XCVI (96)

Greater Depth

- 7b. CDLII, DCCXLII, CDXCII
8b. M = 1,000; D = 500; C = 100; II = 2;
MMDCII = 2,602
9b. 4 possibilities: CCXIV (214);
CCXVI (216); CXCIV (194); CXCVI (196)