Reasoning and Problem Solving Step 1: Roman Numerals

National Curriculum Objectives:

Mathematics Year 4: (4N3b) Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value Mathematics Year 4: (4N6) Solve number and practical problems that involve all of the above and with increasingly large positive numbers

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Complete two missing sections in a part whole model containing Roman numerals up to 20.

Expected Complete two missing sections in a part whole model containing Roman numerals up to 100.

Greater Depth Complete more than two missing sections in a part whole model containing Roman numerals up to 100. Some inverse operation will be required.

Questions 2, 5 and 8 (Problem Solving)

Developing Write three addition/subtractions calculations involving four Roman numerals up to 20.

Expected Write three addition/subtractions calculations involving four Roman numerals up to 100.

Greater Depth Write three two-step addition/subtractions calculations involving four Roman numerals up to 100.

Questions 3, 6 and 9 (Reasoning)

Developing Prove if a statement is correct involving addition and subtraction for Roman numerals up to 20.

Expected Prove if a statement is correct involving addition and subtraction for Roman numerals up to 100.

Greater Depth Prove if a statement is correct involving 2-step addition and subtraction for Roman numerals up to 100.

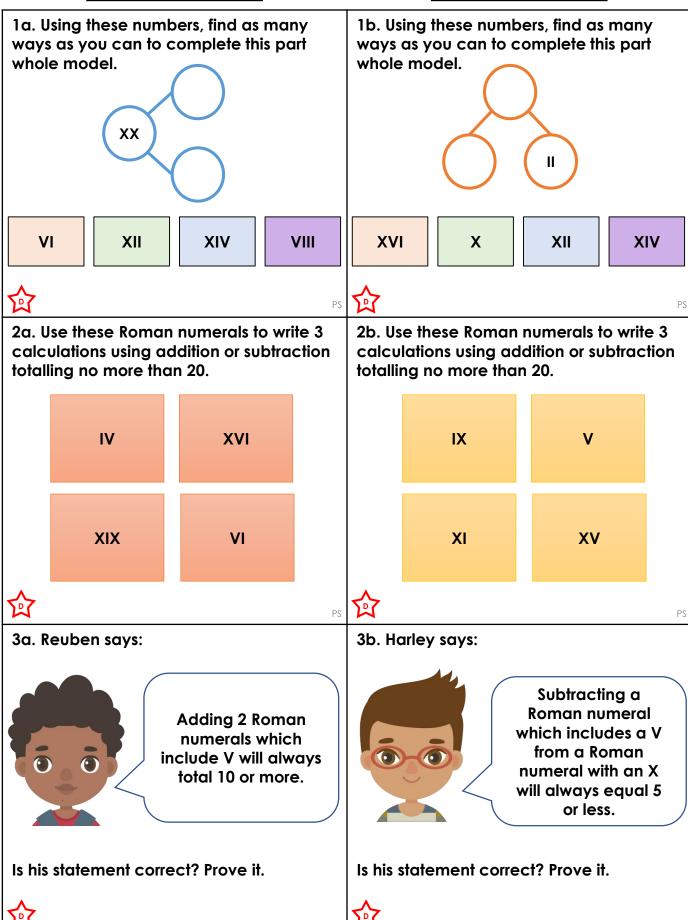
More Year 4 Place Value resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



Roman Numerals

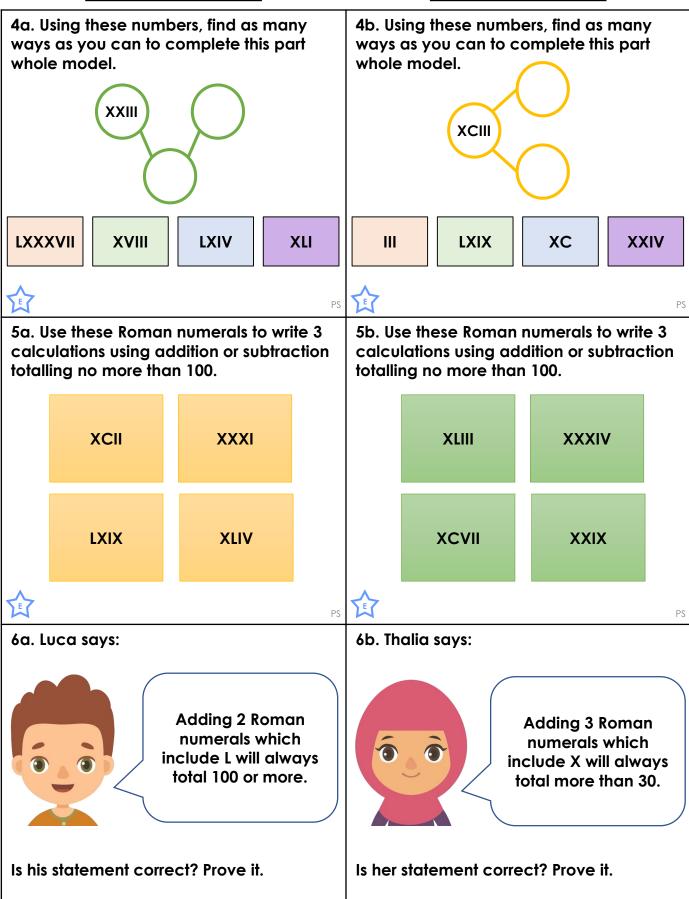
Roman Numerals





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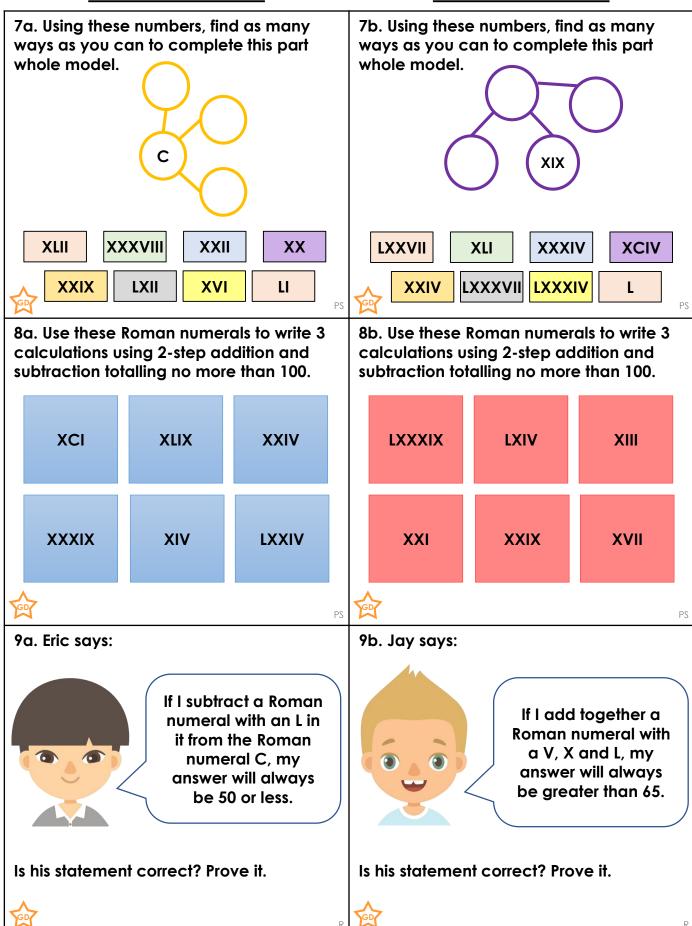
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Reasoning and Problem Solving Roman Numerals

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<u>Developing</u>

1a. VI and XIV XII and VIII

2a. Various answers, for example:

IV + XVI = XX; IV + VI = X

3a. No because if you had: IV(4) + V(5) =

IX (9)

Expected

4a. XVIII and XLI

XLI and LXIV

LXIV and LXXXVII

5a. Various answers, for example:

XCII - XLIV = XLVIII; LXIX + XXXI = C

6a. No because If you had: XL(40) + XL =

LXXX (80)

Developing

1b. XII and XIV

XIV and XVI

X and XII

2b. Various answers, for example:

X + V = XV; IX + V = XIV

3b. No because If you had: XII(12) - V(5)

= 7 or X(10) - IV(4) = IX(9)

Expected

4b. III and XC

LXIX and XXIV

5b. Various answers, for example:

XCVII - XXIX = LXVIII; XLIII + XXXIV =

LXXVII

6b. No because If you had: IX (9) + IX + IX

= XXVII (27)

<u>Greater Depth</u>

7a. Various answers, for example:

XLII and XXXVIII and XX

XXIX and LI and XX

LXII and XVI and XXII

8a. Various answers, for example:

XCI - XLIX + XXIV = LXVI; LXXIV - XXXIX -

XXIV = XI

9a. No because If you had: C(100) – XL

(40) = LX(60)

Greater Depth

7b. Various answers, for example:

XLI and XXXIV and XCIV

XLI and XXIV and LXXXIV

XXXIV and XXIV and LXXVII

XXXIV and XXXIV and LXXXVII

8b. Various answers, for example:

LXIV + XIII + XIX = XCVI; LXXXIX - XXI -

XXIX = XXXIX

9b. No because If you had: IV(4) + IX (9) +

XL(40) = LIII(53)

