

Reasoning and Problem Solving – Roman Numerals 1

National Curriculum Objective:

Mathematics Year 4: [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](#)

Differentiation:

Developing Adding Roman numerals to 10 and creating calculations to match given answers.

Secure Adding Roman numerals to 20 and creating calculations to match given answers.

Mastery Adding Roman numerals to 50 and creating calculations to match given answers.

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Reasoning and Problem Solving – Roman Numerals 1 – Teaching Information

1. Solve the following calculation:

$$IV + I = \boxed{}$$

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

2. Solve the following calculation:

$$VI + II = \boxed{}$$

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

3. Solve the following calculation:

$$V + II = \boxed{}$$

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

4. Solve the following calculation:

$$IX + I = \boxed{}$$

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

5. Solve the following calculation:

$$X + IV =$$

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

6. Solve the following calculation:

$$IX + VI =$$

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

7. Solve the following calculation:

$$XVI + II =$$

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

8. Solve the following calculation:

$$XVII + III =$$

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

9. Solve the following calculation:

$$XL + V =$$

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

10. Solve the following calculation:

$$XXX + XVII =$$

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

11. Solve the following calculation:

$$XLIV + IV =$$

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

12. Solve the following calculation:

$$XXIX + XXI =$$

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

Developing

1. a) V
b) e.g. $I + IV = V$, $II + III = V$, $X - V = V$, $IX - IV = V$, $V \times I = V$, $X \div II = V$, $XX - XV = V$, $XX \div IV = V$, accept any other correct answer
2. a) VIII
b) e.g. $IV + IV = VIII$, $V + III = VIII$, $VII + I = VIII$, $VI + II = VIII$, $X - II = VIII$, $IX - I = VIII$, $IV \times II = VIII$, $VIII \times I = VIII$, $XVI \div II = VIII$, accept any other correct answer
3. a) VII
b) e.g. $IV + III = VII$, $VI + I = VII$, $X - III = VII$, $IX - II = VII$, $VIII - I = VII$, $VII \times I = VII$, $XIV \div II = VII$, accept any other correct answer
4. a) X
b) e.g. $VIII + II = X$, $VII + III = X$, $VI + IV = X$, $V + V = X$, $XX - X = X$, $XIX - IX = X$, $XVIII - VIII = X$, $V \times II = X$, $X \times I = X$, $XX \div II = X$, accept any other correct answer

Secure

5. a) XIV
b) e.g. $IX + V = XIV$, $XI + III = XIV$, $XII + II = XIV$, $XIII + I = XIV$, $VIII + VI = XIV$, $VII + VII = XIV$, $XX - VI = XIV$, $XIX - V = XIV$, $XVIII - IV = XIV$, $XVII - III = XIV$, $XVI - II = XIV$, $XV - I = XIV$, $VII \times II = XIV$, $XXVIII \div II = XIV$, accept any other correct answer
6. a) XV
b) e.g. $X + V = XV$, $XI + IV = XV$, $XII + III = XV$, $XIII + II = XV$, $XIV + I = XV$, $VIII + VII = XV$, $XX - V = XV$, $XIX - IV = XV$, $XVIII - III = XV$, $XVII - II = XV$, $XVI - I = XV$, $XV \times I = XV$, $XXX \div II = XV$, accept any other correct answer
7. a) XVIII
b) e.g. $XVII + I = XVIII$, $XV + III = XVIII$, $XIV + IV = XVIII$, $XIII + V = XVIII$, $XII + VI = XVIII$, $XI + VII = XVIII$, $X + VIII = XVIII$, $XX - II = XVIII$, $XIX - I = XVIII$, $VI \times III = XVIII$, $XXXVI \div II = XVIII$, accept any other correct answer

Mastery

9. a) XLV
b) e.g. $XLI + IV = XLV$, $XLII + III = XLV$, $XLIII + II = XLV$, $XXX + XV = XLV$, $XXV + XX = XLV$, $L - V = XLV$, $XLIX - IV = XLV$, $XLVIII - III = XLV$, $V \times IX = XLV$, $XV \times III = XLV$, $XC \div II = XLV$, accept any other correct answer
10. a) XLVII
b) e.g. $XL + VII = XLVII$, $XLI + VI = XLVII$, $XLII + V = XLVII$, $XLIII + IV = XLVII$, $XLIV + III = XLVII$, $XLV + II = XLVII$, $XLVI + I = XLVII$, $L - III = XLVII$, $XLIX - II = XLVII$, $XLVII \times I = XLVII$, accept any other correct answer
11. a) XLVIII
b) e.g. $XL + VIII = XLVIII$, $XLI + VII = XLVIII$, $XLII + VI = XLVIII$, $XXVIII + XX = XLVIII$, $L - II = XLVIII$, $XLIX - I = XLVIII$, $C - LII = XLVIII$, $XXII \times II = XLVIII$, $IV \times XII = XLVIII$, $XCVI \div II = XLVIII$, accept any other correct answer
12. a) L
b) e.g. $XXV + XXV = L$, $XXX + XX = L$, $XL + X = L$, $XLV + V = L$, $XLI + IX = L$, $XLIV + VI = L$, $C - L = L$, $LX - X = L$, $LV - V = L$, $V \times X = L$, $XXV \times II = L$, $C \div II = L$, accept any other correct answer