# Reasoning and Problem Solving - Roman Numerals 1

## National Curriculum Objective:

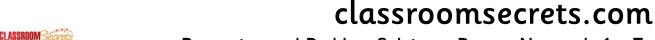
Mathematics Year 4: Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value

#### 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

1.	Solve	the	following	calcu	lation:
• •	-		10110111119		

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

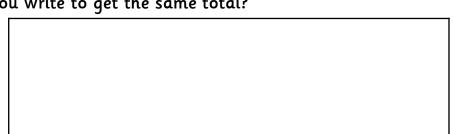


2. Solve the following calculation:

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

3. Solve the following calculation:

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



4. Solve the following calculation:

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



5.	Solve	the	following	calcu	lation:

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

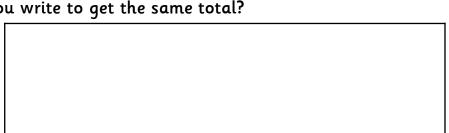




How many other calculations, using Roman numerals, can you write to get the same total?

7. Solve the following calculation:

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

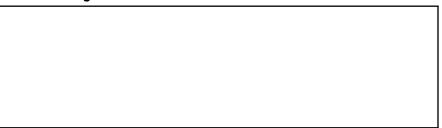


8. Solve the following calculation:

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



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



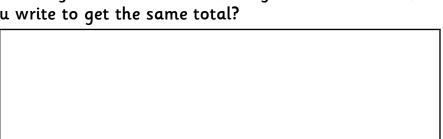
10. Solve the following calculation:

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



11. Solve the following calculation:

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



12. Solve the following calculation:

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



#### Reasoning and Problem Solving - Roman Numerals 1

#### 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, VII + II = VIII, IV + III = VIII,  $IV \times II = VIII$ ,  $IV \times II$
- 3. a) VII b) e.g. IV + III = VII, VI + I = VII, X III = VII, IX II = VII, VIII I = VII, VII x I = VII, XIV ÷ II = VII, accept any other correct answer
- 4. a) X b) e.g. VIII + II = X, VII + III = X, VI + IV = X, VII + VIII = X, VIII + VIII + VIII = X, VIII + V

#### 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 x II = XIV, XXVIII ÷ II = XIV, accept any other correct answer
- 6. a) XV b) e.g. X + V = XV, XI + IV = XV, XII + II = XV, XIII + II = XV, XIV + I = XV, VIII + II = XV, XX V = XV, XIX IV = XV, XVIII III = XV, XVIII II = XV, XVI I = XV, XV x I = XV, XXX ÷ 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, XX II = XVIII, XIX I = XVIII, VI x III = XVIII, XXXVI ÷ 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 x IX = XLV, XV x III = XLV, XC ÷ 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, XLIX II = XLVII, XLVII x 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 x II = XLVIII, IV x XII = XLVIII, XCVI ÷ 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, LX X = L, L

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