

## Reasoning and Problem Solving Roman Numerals

### Developing

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)

### Greater Depth

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)

## Reasoning and Problem Solving Roman Numerals

### 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)

### 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)