

Answer Key**Roman Numerals Exploration**

Ancient Romans used a different way of writing numbers. Using the application *Numerus* on your handheld, answer the following questions.

Fill in the chart below with the values of each Roman numeral.

I	1
V	5
X	10
L	50
C	100
D	500
M	1,000

II	2
VI	6
MM	2,000
CLX	160
MDCLI	1,651
LXVII	67
LXXX	80

Tap on the menu button and choose Options > Input Method. Tap on the "Additive" button. Next, tap on the clear button in *Numerus*. Tap the "I" button many times in a row. Notice what happens to the number and Roman numeral at the top of the screen. Continue to tap "I." what happens and why.

***Sample Answer:* Numerus adds one each time you tap "I." It also changes the numbers into proper (simplified) Roman numerals.**

Enter the following problems into *Numerus*. You will need to change the numbers into a Roman numerals. **Record your answer as a Roman numeral.**

$$16 + 6 = \underline{\text{XXII}}$$

$$2040 / 60 = \underline{\text{XXXIV}}$$

$$3 \times 500 = \underline{\text{MD}}$$

$$2001 - 665 = \underline{\text{MCCCXXXVI}}$$

$60 + 556 = \underline{\text{DCXVI}}$

$1210 / 5 = \underline{\text{CCXLII}}$

$555 - 66 = \underline{\text{CDLXXXIX}}$

$144 / 12 = \underline{\text{XII}}$

$14320 / 10 = \underline{\text{MCDXXXII}}$

$899 + 44 = \underline{\text{CMXLIII}}$

$(82 + 23) / 5 = \underline{\text{XXI}}$

$(90 / 15) * 47 = \underline{\text{CCLXXXII}}$

$98 + 23 = \underline{\text{CXXI}}$

$82 / 23 = \underline{\text{III}}$

Tap on the clear button in *Numerus*. Tap the "M" button five times in a row. Notice what happens to the number and Roman numeral at the top of the screen. Continue to tap "M." Explain what happens and why.

Sample Answer: When you tap "M" five times, Numerus turns it into "V.M." V.M means 5,000. The dot must mean multiplication.

Now that you have worked with many Roman numerals, fill out the Venn diagram below to compare and contrast our Arabic number system with Roman Numerals.

