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| PENSUM B   | GRADE LATIN NUMBERS UNIT PAGE 2  |
|--|--|
| Convert these Hindu-Arabic nume                                |  |
| 17   | 49   |
| 32   | 990  |
| 78   | 109  |
| 7,442  | 348  |
| 5,496  | 655  |
| 200,000  | 12,500   |
| PREFIXES AND ROMAN NUMERALS                                    |  |
| The following exercise demonstr a knowledge of Latin numerals. | ish as prefixes to thousands of words. ates to the student the value of possessing |
|  | wing words in a dictionary.  |
| UNUS (uni-)  | SEX  |
| uniaxial<br>unicameral   | sextuple<br>sextuplet  |
| unicellular  | sexagenarian   |
| unicycle   | ,  |
| unify  |  |
| DUO ( du- )  | SEPTEM ( sept-, septem(n)- )   |
| duel   | septet   |
| duet   | septillion   |
| duple  | September  |
| duplex   |  |
| duplicate  |  |
| TRES ( tri- )  | OCTO ( oct-, octo-, octa- )  |
| triangle   | octant   |
| triaxial   | octagon  |
| trident  | octopus  |
| trienial   |  |
| QUATTUOR ( quat-, quad- )                                      | NOVEM  |
| quadrennium  | November   |
| quadricycle  | novena   |
| quadrilateral  |  |
| quadruple  |  |
| quatrain   |  |
| QUINQUE  | DECEM  |
| quinquennial   | December   |
| quinquennium   | decenium   |

## DIRECTIONS:

The following exercise is to demonstrate to the student the value of knowing the ordinal numbers in Latin. Hundreds of English words are derived from the Latin cardinal numbers. Look up the following English words from the dictionary and write by the following words a brief English definition. Realize how easy the meaning of English words become once we know the Latin numerals.

PRIMUS SEXTUS

primary Sextant prime sextet pimer sextillion

primeval primogeniture

SECUNDUS SEPTIMUS

second secondary

TERTIUS OCTAVUS

tertian octave

tertiary

QUARTUS NONUS

quarterNonagenarianquartetnonagon

quart noon

QUINTUS DECIMUS

quintet decimal quintuple decimate

quintillion

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The Romans limited the number of vertical lines after another number to three. However, inserting a vertical line before V meant that you wished to decrease that number by one. Hence: IV = (5-1) or four. They limited the number of vertical lines before another number to one.

The number ten was represented by two V's placed tip to tip to form an X. Of course by the addition/subtraction rule

Nine = IX (10 - 1)
Eleven = XI (10 + 1)
Twelve = XII (10 + 2)
Thirteen = XIII (10 + 3)
Fourteen = XIV (10 + (5 - 1))
Fifteen = XV (10 + 5)
Twenty-one = XXI (10 + 10 + 1), et cetera

When you think about it, this simple system is quite ingenious. It enabled the Romans to write all of the numbers from 1 to 40.

To continue, the Romans added other letters. From Greek, they took the letter L to represent fifty. The number forty can be written with four X's:

Forty = XXXX (10 + 10 + 10 + 10) or XL (50 - 10) Sixty = LX (50 + 10) Seventy = LXX (50 + 10 + 10), et cetera.

The number one hundred is represented by the letter C, the first letter of the Latin word for one hundred, *Centum*. For one thousand, the Romans used the first letter of *Mille*, Latin for one thousand. Five hundred was represented by the letter D, probably from *Demi-mille* or one-half of one thousand. More complicated numbers could be formed by putting the letters next to each other and adding and subtracting:

$$MCDXLII = 1000 + (500 - 100) + (50 - 10) + 2 = 1442$$

a) Before you begin doing the exercises that follow, go back to page XIV and fill in the Arabic equivalents of all of the Roman numerals.

b) Now go back to page XIII and write out the problem and its answer in Arabic numerals, then translate your answer into Roman numerals as well.

