Name: $\qquad$
$\qquad$

## WHOLE NUMBER PLACE VALUE

Large numbers are grouped by three digits called $\qquad$ . Periods are usually separated by commas.


## HOW CAN WE WRITE NUMBERS IN DIFFERENT WAYS?

- STANDARD FORM: a number written using the _ digits _ 0-9

> 1,247,350,000

- WORD FORM: a number written using $\qquad$
words
*How you read a number is how you write the number in word form.

1. Read the $\qquad$ in each period, beginning in the largest period
2. When you see a comma, say the $\qquad$ period name EXCEPT for the $\qquad$ period!

1,247,350,000 $\rightarrow_{\text {_ }}$ One billion, two hundred forty-seven million, three hundred fifty thousand

- EXPANDED NOTATION: a number that shows each digit being _ multiplied __ by its place value *REMEMBER: do not represent zeros!!!

$$
1,247,350,000 \rightarrow \frac{(1 \times 1,000,000,000)+(2 \times 100,000,000)+}{\underline{(4 \times 10,000,000)+(7 \times 1,000,000)+(3 \times 100,000)+}} \underset{\underline{(5 \times 10,000)}}{\underline{(1)}}
$$

- EXPANDED FORM: a number that shows the $\qquad$ of each digit
*Expanded form is what occurs AFTER expanded notation has been multiplied.
*REMEMBER: do not represent zeros!!!
$1,247,350,000 \rightarrow_{-} 1,000,000,000+200,000,000+40,000,000+$

$$
7,000,000+300,000+50,000
$$



40 million

ANOTHER WAY:

1. Write the _ digit _.
2. All diaits behind turn to zeros


200 million

