Thousands, Hundreds, Tens, Ones

Name: _____ Score: _____

Fill in the blanks.

3,987 > ___ thousands ___ hundreds ___ tens ___ ones

4,098 > ___ thousands ___ hundreds ___ tens ___ ones

5,900 > ___ thousands ___ hundreds ___ tens ___ ones

9,098 > ___ thousands ___ hundreds ___ tens ___ ones

5,881 > ___ thousands ___ hundreds ___ tens ___ one

3,666 > ___ thousands ___ hundreds ___ tens ___ ones

_____ < 2 thousands, 8 hundreds, 1 one

_____ < 5 thousands, 9 hundreds, 7 tens, 7 ones

_____ < 4 thousands, 3 hundreds, 3 tens, 2 ones

_____ < 1 thousand, 5 hundreds

_____ < 2 thousands, 5 hundreds, 9 tens, 8 ones

Exploring Large Numbers

The world's all-time best-selling copyright book is *Guinness World Records*. From October 1955 to June 2002, 94 767 083 copies were sold.

Suppose the number is written in this place-value chart. Where will the digits 9 and 4 appear?

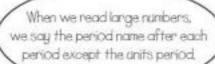| Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

➤ These patterns in the place-value system may help you read and write large whole numbers.

- From right to left, each group of 3 place values is called a *period*.

- Within each period, the digits of a number are read as hundreds, tens, and ones.

- Each position represents ten times as many as the position to its right. For example, 2 hundreds = 20 tens   and   4 ten thousands = 40 thousands

This place-value chart shows the number of items in the world's largest collection of matchbook covers, 3 159 119.

Millions Period			Thousands Period			Units Period		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
		3	1	5	9	1	1	9
		3 000 000	100 000	50 000	9000	100	10	9

We read this number as:
three *million* one hundred fifty-nine *thousand* one hundred nineteen

When we read large numbers, we say the period name after each period except the units period.

We leave a space between the periods when we write a number with 5 or more digits.

We can write this number in:

- standard form: 3 159 119

- expanded form: 3 000 000 + 100 000 + 50 000 + 9000 + 100 + 10 + 9

- number-word form: 3 million 159 thousand 119

➤ The place-value chart can be extended to the left to show greater whole numbers. This place-value chart shows the approximate number of cells in the human body.

One thousand million is one **billion**. One thousand billion is one **trillion**.

Trillions			Billions			Millions			Thousands			Units		
H	T	O	H	T	O	H	T	O	H	T	O	H	T	O
	5	0	0	0	0	1	0	0	0	0	0	0	0	0

We write: 50 000 100 000 000
We say: fifty trillion one hundred million