Lesson 01: Whole Numbers

Whole Numbers and Place Value

Vocabulary

Number System A way of naming numbers		
Digits	Number symbols (numerals) 0, 1, 2, 3, 4, 5, 6, 7,8, 9	
Place Value	Position in a number	
Decimal place-value system	Value of the position in the number is based on the number 10	

Place Value:

Billions Group			Millions Group		Thousands Group			Ones Group			
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
7	4	9,	5	0	3,	2	1	8,	9	6	5

Seven hundred forty-nine billion, five hundred three million, two hundred eighteen thousand, nine hundred sixty-five

Standard (numerical) Form: 5,367

Expanded Form: $(5 \times 1,000) + (3 \times 100) + (6 \times 10) + (7 \times 1)$ **Word Form:** Five thousand, three hundred sixty-seven

Standard (numerical) Form: 400,012,508

Expanded Form: $(4 \times 100,000,000) + (1 \times 10,000) + (2 \times 1,000) + (5 \times 100) + (8 \times 1)$ **Word Form:** Four hundred million, twelve thousand, five hundred eight

Note:

A comma "," is used separate the different groups in the number.

The zero "0" is used as a place holder.

The word "and" is not used in writing the name of this type of number.

TRY:

Complete the following.

Standard Form	
Expanded form	(6 x 10,000) + (2 x 1,000) + (4 x 100) + (3 x 10) + (7 x 1)
Word form	

Standard form	
Expanded form	
Word form	Three million, four hundred fifteen

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