

PLACE VALUE

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The position of a digit in a number determines its place value.

NOTE: There are ten different digits in our number system. We have ten fingers, ten toes, and there are ten digits!

↳ The ten digits are:

Math is a universal language. The number 543 means the same thing in English, Spanish, Chinese, etc.

↳ example 1: 726

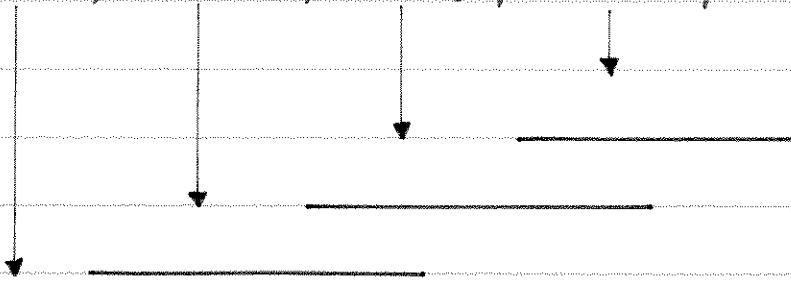
the 7 is in the hundreds place

The 2 is in the tens place

The 6 is in the ones place

↳ EXAMPLE 2:

34, 436, 781, 525, 372



• EXPANDED FORM

↳ EXAMPLE 3:

$$234 = \underline{\quad} + \underline{\quad} + \underline{\quad}$$

and is said, "TWO hundred THIRTY - FOUR" since there are

2 , 3 , and 4 .

NOTE: Expanded form can help with addition of large numbers

↳ EXAMPLE 4:

$$\begin{array}{r} 234 \\ + 415 \\ \hline 649 \end{array} = \begin{array}{r} 200 + 30 + 4 \\ \underline{\quad} + \underline{\quad} + \underline{\quad} \\ \underline{\quad} + \underline{\quad} + \underline{\quad} \end{array}$$

• READING NUMBERS

↳

EXAMPLE 5:

2, 347, 651

translates to:

" TWO _____, three hundred forty-
seven _____, six hundred
fifty-one."

↳

EXAMPLE 6:

"Forty-eight million, ten thousand,
one hundred three"

translates to:

NOTE: There are always THREE digits
between two commas.

↳

EXAMPLE 7:

What is the place value of the

5 in the number

450,992 ?

ANSWER: The 5 is in the

_____ place.

PLACE VALUE Practice Problems

1. List the ten digits used in our number system.
2. Write the number 637 in expanded form.
3. Write the number 37,451 in words.
4. Write the number below using digits:
Thirty-two million, forty-five thousand, twenty-one.
5. What is the place value of the 7 in the number
175,062,091 ?