

TOPIC: HINDU-ARABIC NUMERATION SYSTEM

Hindu-Arabic Numeration System

- ◆ The Hindu-Arabic Numeration System is **positional**, so we symbolize quantities using _____ in _____.
- ▶ The Hindu-Arabic System is a _____ system with digits _____. The place values are _____ of _____.

New

Expanded Form of a Hindu-Arabic Numeral

5,893 =

_____ thousands (_____) =
_____ hundreds (_____) =
_____ tens (_____) =
_____ ones (_____) =

}

_____ the pieces
back together

- ◆ To go from expanded form to a HA numeral, start with _____ power & put each digit in the correct place value.

EXAMPLE

Convert $(4 \times 10^5) + (6 \times 10^3) + (7 \times 10^2)$ from expanded form to a Hindu-Arabic numeral.

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PRACTICE

Write the expanded form of the following numerals.

(**A**) 38,279

(**B**) 5,204,817

PRACTICE

Convert from expanded form to a Hindu-Arabic numeral.

(**A**) $(2 \times 10^5) + (4 \times 10^4) + (6 \times 10^3) + (8 \times 10^2) + (2 \times 10^1) + (4 \times 1)$

(**B**) $(8 \times 10^5) + (6 \times 10^4) + (2 \times 10^2) + (4 \times 10) + (6 \times 1)$