









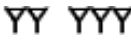

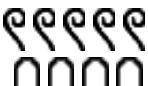

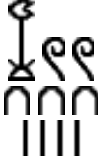



# Enumeration systems








The current number system that is common throughout the world is called Hindu-Arabic. This system was developed in Indian and introduced to the Arabic world in the 10th century. It is a decimal (base 10) with place value and a zero.

In its current form, the Hindu-Arabic system has only existed since around the 13th century. Before this time, many other systems were used (and some still are!). See if you can identify the numbers in the chart below. A few hints are located on the next page.

Hindu-Arabic	Egyptian	Roman	Babylonian	Mayan	Base-5
		III			
		XIV			
		XXVII			
49		XLIX			
		CXXIII			
		DXL	(tricky!)		
		MCCXXXIV			
99					
256					

## Egyptian

The [Egyptian hieroglyphic system](#) dates back as early as 3000 BC. Can you label the symbols?

						
				10,000	100,000	1,000,000

## Roman

The notation of Roman numerals has varied through the centuries. In fact, the subtractive notation (IIII vs. IV) is fairly recent. Can you label the symbols? What effect does the bar over top have?

I	V	X	L	C	D	M	$\bar{V}$	$\bar{X}$
						1,000	5,000	10,000

## Babylonian

Babylonians were well-known for astronomy and developed a sexagesimal number system. Base-60 still survives to this day in degrees ( $360^\circ$  in a circle), minutes, and seconds. The [Babylonian number system](#) is credited as the first to use a place value system. Can you label the symbols?

<	Y

## Mayan

The Mayans lived in Central America circa 1500 BC to 1500 AD. Without knowledge of any European or Asian number systems, they developed a vertical [system of dots and bars](#). The Mayan system had a symbol for zero and place value. Can you label the symbols?

