

Mathematics

# Indian Number System


Mr Millar



# Try this

What's the same and what's different about the standard short scale system (which we use) and the Indian number system?

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



# Connect

Write each of the numbers below in both systems

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



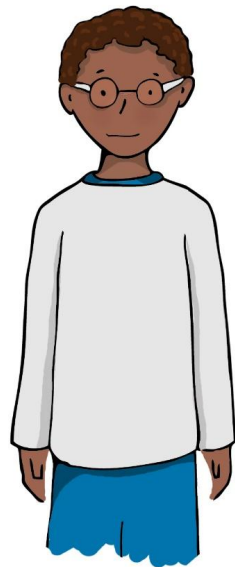
50 000			fifty thousand
300 000			three lakhs
	twenty-five million		



# Independent task

1. Write each of these numbers in both number systems

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



200 407

This is written in standard short scale:  
Two hundred thousand, four hundred and seven.

In the Indian number systems that is 2 00 407:  
Two lakh, four hundred and seven.

1 30 000

5 200 080

15 000 000



# Explore

Complete the statements below using  $<$ ,  $>$ , or  $=$  symbols.

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



one hundred thousand  ten lakh

five lakh  500 000

60 40 200  six million, forty thousand

twenty-two million  two crore, two lakh




# Answers



# Try this

What's the same and what's different about the standard short scale system (which we use) and the Indian number system?

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



The two systems are the same up until the ten thousands.


After that, the naming convention is different. Also in the standard short scale system, digits are always grouped in 3s. In the Indian system, the final group is 3 digits, but all groups before than are groups of 2.



# Try this

Write each of the numbers below in both systems

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



50 000	fifty thousand	50 000	fifty thousand
300 000	Three hundred thousand	3 00 000	three lakhs
25 000 000	twenty-five million	2 50 00 000	Two crores, three lakhs

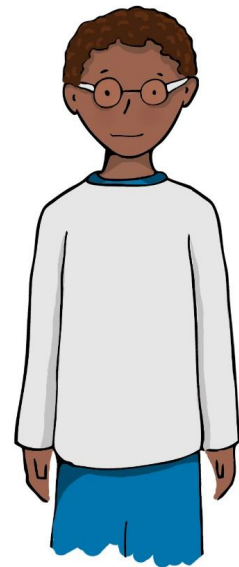




# Try this

1. Write each of these numbers in both number systems

The standard short scale system		The Indian number system	
1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
1 000	thousands	1 000	thousands
10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



**200 407** This is written in standard short scale:  
Two hundred thousand, four hundred and seven.

In the Indian number systems that is 2 00 407:  
Two lakh, four hundred and seven.

**1 30 000**

1 lakh, thirty thousand  
130 000 (One hundred and thirty thousand)

**5 200 080**

Five million, two hundred thousand and eighty  
52 00 080 (Fifty two lakh and eighty)

**15 000 000**

Fifteen million  
1 50 00 000 (1 crore, fifty lakh)



# Try this

Complete the statements below using  $<$ ,  $>$ , or  $=$  symbols.

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1	ones	1	ones
10	tens	10	tens
100	hundreds	100	hundreds
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10 000	ten thousands	10 000	ten thousands
100 000	hundred thousands	1 00 000	lakhs
1 000 000	millions	10 00 000	ten lakhs
10 000 000	ten millions	1 00 00 000	crores
100 000 000	hundred millions	10 00 00 000	ten crores



one hundred thousand  $<$  ten lakh

five lakh  $=$  500 000

60 40 200  $>$  six million, forty thousand

twenty-two million  $>$  two crore, two lakh

