

# Activity 3 Assessment

## Whole Numbers to One Billion around Us

### Whole Numbers to One Billion around Us

Represents a number to millions in different ways

B	HM	TM	M	HT	TT	Th	H	T	O
			1	1	7	0	3	9	8

“one million one hundred seventy thousand three hundred ninety-eight”

$$1 \times 1\,000\,000 + 1 \times 100\,000 + 7 \times 10\,000 + 3 \times 100 + 9 \times 10 + 8$$

$$1 \times 10^6 + 1 \times 10^5 + 7 \times 10^4 + 3 \times 10^2 + 9 \times 10^1 + 8$$

Represents a number to billions in different ways

B	HM	TM	M	HT	TT	Th	H	T	O
5	7	3	1	6	4	8	2	0	9

“five billion seven hundred thirty-one million six hundred forty-eight thousand two hundred nine”

$$5 \times 1\,000\,000\,000 + 7 \times 100\,000\,000 + 3 \times 10\,000\,000 + 1 \times 1\,000\,000 + 6 \times 100\,000 + 4 \times 10\,000 + 8 \times 1000 + 2 \times 100 + 9$$

$$5 \times 10^9 + 7 \times 10^8 + 3 \times 10^7 + 1 \times 10^6 + 6 \times 10^5 + 4 \times 10^4 + 8 \times 10^3 + 2 \times 10^2 + 9$$

Compares and orders numbers to billions

Use a place-value chart to compare 985 327 902 and 1 238 902 716.

B	HM	TM	M	HT	TT	Th	H	T	O
	9	8	5	3	2	7	9	0	2
1	2	3	8	9	0	2	7	1	6

1 238 902 716 is greater.

Solves problems involving the comparison of large numbers

Suppose one metre represents 1 billion. What measurement represents 1 million?

One billion is 1000 times as great as 1 million.  
In 1 m, there are 100 cm, and 1000 mm.  
So, 1 mm represents 1 million.

### Observations/Documentation