

Learning Target: Read and write multi-digit numbers in different forms.

Success Criteria:

- I can write a number in standard form.
- I can read and write a number in word form.
- I can write a number in expanded form.

Think and Grow

Example Use the place value chart to write the number below in standard form and expanded form.

Billions Period			Millions Period			Thousands Period			Ones Period		
H	T	O	H	T	O	H	T	O	H	T	O

Standard form:

Word form: forty-three billion, nine hundred four million, sixteen thousand, nine

Expanded form: _____ × _____ + _____ × _____ + _____
 × _____ + _____ × _____ + _____
 × _____ + _____ × _____ + _____ × _____

Show and Grow

Write the number in two other forms.

1. Standard form:

Word form:

Expanded form: $5 \times 10,000,000 + 1 \times 1,000,000 + 2 \times 100,000 + 8 \times 10,000$
 $+ 8 \times 1,000 + 6 \times 100 + 7 \times 10$

2. Standard form:

Word form: six hundred thirty million, four hundred twelve thousand,
 eight hundred twenty-three

Expanded form:

3. Standard form: 9,274,015,824

Word form:

Expanded form:

Practice

Write the number in two other forms.

4. Standard form: 19,000,761,001

Word form:

Expanded form:

5. Standard form: 427,628,000,253

Word form:

Expanded form:

6. Complete the table.

Standard Form	Word Form	Expanded Form
	ninety million, seven hundred twenty-three thousand, fifteen	
		$4 \times 10,000,000,000 + 8 \times 1,000 + 1 \times 10 + 9 \times 1$

7. **MP Logic** What is the number?
The number has three periods. The thousands period is written as eighty-eight thousand in word form. The ones period is written as $1 \times 100 + 5 \times 10 + 1 \times 1$ in expanded form. The millions period is written as 729 in standard form.

8. **Which One Doesn't Belong?** Which one does *not* belong with the other two?

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

761,324,050,222

seven hundred sixty-one billion, three hundred twenty-four million, fifty thousand, two hundred twenty-two

9. **Modeling Real Life** Your friend uses sign language to sign a number.



Use the table to write the number in standard form, word form, and expanded form.

American Sign Language Numbers				
0	1	2	3	4
5	6	7	8	9