

# Place Value to Millions

**How to use:** Print first for the main practice. Then use the device to repeat activities and save progress.

## LEARNING OBJECTIVES

- 1 Read and write 7-digit numbers up to 9,999,999 in standard form
- 2 Write 7-digit numbers in word form using the millions and thousands groups
- 3 Write 7-digit numbers in expanded form by adding the value of each digit
- 4 Identify the value of a specified digit anywhere through the millions place

## MINI LESSON

Numbers up to ten million show up in populations, distances in space, and big data sets. Every whole number can be written three ways: standard form (digits only), word form (written-out words), and expanded form (each place value shown as an addition).

### The Place-Value Chart Through Millions

- Seven place values from right to left: ones, tens, hundreds, thousands, ten-thousands, hundred-thousands, millions.
- Each place is 10 times greater than the place to its right.
- Group digits in threes from the right and separate each group with a comma: 4,827,653.
- Each three-digit group is called a period: ones period, thousands period, and millions period.

### Standard Form

- Write the digits in order from greatest place to least.
- Insert a comma after every third digit from the right: 4,827,653.
- Example: four million, eighty thousand, two hundred fifty becomes 4,080,250.

### Word Form

- Name the millions period, then the thousands period, then the rest.
- Use the word "million" after the millions group and "thousand" after the thousands group.
- A zero in any place is not spoken: 4,080,250 is "four million, eighty thousand, two hundred fifty".

### Expanded Form

- Break the number into the value of each non-zero digit and add them.
- 4,827,653 becomes  $4,000,000 + 800,000 + 20,000 + 7,000 + 600 + 50 + 3$ .
- Skip any place whose digit is zero — no zero addends.

! Tip: group digits in threes from the right, then insert commas. Read each period (millions, thousands, ones) like its own three-digit number.

VOCABULARY

**place value** The value a digit has because of its position in a number.

**standard form** A number written using only digits and commas, like 4,827,653.

**word form** A number written out in words, like four million, eight hundred twenty-seven thousand, six hundred fifty-three.

**expanded form** A number written as the sum of the value of each digit, like  $4,000,000 + 800,000 + 20,000$ .

**period** A group of three digits separated by a comma — millions, thousands, and ones.

Place-Value Chart to Millions

Millions	H-Thou	T-Thou	Thousands	Hundreds	Tens	Ones
4	8	2	7	6	5	3
4,000,000	800,000	20,000	7,000	600	50	3

**4,827,653**

four million, eight hundred twenty-seven thousand, six hundred fifty-three

Each place is 10 times greater than the place to its right.

Three Ways to Write 4,827,653

**Standard Form** **4,827,653**

**Word Form** four million, eight hundred twenty-seven thousand, six hundred fifty-three

**Expanded Form**  $4,000,000 + 800,000 + 20,000 + 7,000 + 600 + 50 + 3$

Read the millions group, then thousands, then the rest.  
Skip any place whose digit is zero in expanded form.

VOCABULARY

**place value** The value a digit has because of its position in a number.

**standard form** A number written using only digits and commas, like 4,827,653.

**word form** A number written out in words, like four million, eight hundred twenty-seven thousand, six hundred fifty-three.

**expanded form** A number written as the sum of the value of each digit, like  $4,000,000 + 800,000 + 20,000$ .

**period** A group of three digits separated by a comma — millions, thousands, and ones.

GUIDED PRACTICE — WRITE YOUR RESPONSE

Read the prompt and use at least 4 of the vocabulary words below. Write at least 20 words.

**Prompt**

Write 2-3 sentences explaining what you have learned. Use at least 4 of the vocabulary words below.

**VOCABULARY — USE AT LEAST 4**

million · thousand · period

Write at least 20 words.

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**EXERCISES — FILL IN THE BLANKS**

Fill in each blank with the correct standard, word, or expanded form.

- 4,000,000 + 800,000 + 20,000 + 7,000 + 600 + 50 + 3 in standard form: \_\_\_\_\_ .
- "Six million, three hundred forty thousand, twenty-one" in standard form: \_\_\_\_\_ .
- 5,062,400 in expanded form: 5,000,000 + \_\_\_\_\_ + 2,000 + 400.
- 9,000,000 in word form: \_\_\_\_\_ .
- 7,000,000 + 200,000 + 30,000 + 8 in standard form: \_\_\_\_\_ .
- 3,508,072 in expanded form: 3,000,000 + 500,000 + 8,000 + \_\_\_\_\_ + 2.
- "Two million, fifteen thousand, four hundred" in standard form: \_\_\_\_\_ .

*"Flip the page upside down to see the answer key"*

1. 4,827,653 2. 6,340,021 3. 60,000 4. nine million 5. 7,230,008 6. 70 7. 2,015,400

**EXERCISES — FILL IN THE BLANKS**

Write the value of the underlined digit on the line.

- In 4,728,153 — the value of the 7 is \_\_\_\_\_ .
- In 6,340,021 — the value of the 6 is \_\_\_\_\_ .
- In 9,805,217 — the value of the 8 is \_\_\_\_\_ .
- In 1,072,540 — the value of the 7 is \_\_\_\_\_ .

5. In 5,432,109 — the value of the 4 is \_\_\_\_\_ .

6. In 8,219,635 — the value of the 2 is \_\_\_\_\_ .

"Flip the page upside down to see the answer key"

1. 700,000 2. 6,000,000 3. 800,000 4. 70,000 5. 400,000 6. 200,000

### EXERCISES — TAP THE CORRECT ANSWER

Read each question, then color the circle next to every correct answer.

1. In 4,728,153 — tap the value of the digit 7.

- 70    7,000    70,000    700,000    7,000,000    700

2. In 6,340,021 — tap the value of the digit 6.

- 60,000    600,000    6,000,000    60    6,000    600

3. In 9,805,217 — tap the value of the digit 8.

- 8    80    800    8,000    80,000    800,000

4. In 1,072,540 — tap the value of the digit 7.

- 700    7,000    70,000    700,000    7    7,000,000

5. In 5,432,109 — tap the value of the digit 4.

- 40,000    400,000    4,000,000    4,000    40    400

6. In 8,219,635 — tap the value of the digit 2.

- 2,000,000    200,000    20,000    2,000    200    20

### EXERCISES — MULTIPLE CHOICE

Circle the best answer.

1. Which is the standard form of "three million, forty thousand, six hundred"?

- 3,400,600  
 3,040,600  
 3,040,060

2. What is the value of the digit 6 in 7,650,219?

- 6,000  
 60,000  
 600,000

3. Which expanded form matches 5,008,030?

- 5,000,000 + 8,000 + 30  
 5,000,000 + 800 + 30  
 5,000,000 + 80,000 + 30

4. 2,000,000 + 400,000 + 60,000 + 9 in standard form is:

- 2,460,009  
 2,460,090  
 2,406,009

5. How many digits does a 7-digit number always have?

- Exactly 6
- Exactly 7
- Up to 8

6. In 4,827,653, which digit is in the ten-thousands place?

- 8
- 2
- 7

7. What is  $9,999,999 + 1$ ?

- 9,999,000
- 10,000,000
- 9,999,991

8. Which word form matches 6,070,005?

- six million, seventy thousand, five
- six million, seven thousand, five
- six million, seventy thousand, fifty

*"Flip the page upside down to see the answer key"*

1. b 2. c 3. a 4. a 5. b 6. b 7. b 8. a

## ASSESSMENT

### PARENT / TEACHER CHECKLIST

- Reads a 7-digit number aloud correctly, naming the millions and thousands periods.
- Writes a given word-form number up to 9,999,999 in standard form with correct comma placement.
- Writes the expanded form of a 7-digit number, skipping zero place values.
- Identifies the value of a specified digit anywhere through the millions place.