

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.

EXERCISES — FILL IN THE BLANKS

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

1. $4,000,000 + 800,000 + 20,000 + 7,000 + 600 + 50 + 3$ in standard form: _____ .
2. "Six million, three hundred forty thousand, twenty-one" in standard form: _____ .
3. 5,062,400 in expanded form: $5,000,000 +$ _____ $+ 2,000 + 400$.
4. 9,000,000 in word form: _____ .
5. $7,000,000 + 200,000 + 30,000 + 8$ in standard form: _____ .
6. 3,508,072 in expanded form: $3,000,000 + 500,000 + 8,000 +$ _____ $+ 2$.
7. "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.

1. In 4,728,153 — the value of the 7 is _____ .
2. In 6,340,021 — the value of the 6 is _____ .
3. In 9,805,217 — the value of the 8 is _____ .
4. 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.