

Place Value Power

Use digit places to read, write, and compare large numbers.

GRADE 4 • MA.4.NSO.1

MA.4.NSO.1 "Understand place value for multi-digit numbers."

NAME _____

DATE _____

DIGITS HAVE VALUE

A digit's value depends on its place in a number. Starting at the right, the places are ones, tens, hundreds, thousands, ten-thousands, and hundred-thousands. Use each digit's place to write expanded form or compare numbers.

WORKED EXAMPLE

Write 582,304 in expanded form.

1. Find the value of each nonzero digit.
2. 5 is worth 500,000 and 8 is worth 80,000.
3. 2 is worth 2,000, 3 is worth 300, and 4 is worth 4.
4. Add the values of the digits.

Answer: $500,000 + 80,000 + 2,000 + 300 + 4$

PRACTICE 6 problems

- 1** What is the value of the digit 7 in 476,219?

ANSWER _____

- 2** Write 903,458 in words.

ANSWER _____

- 3** Write 621,045 in expanded form.

ANSWER _____

- 4** Write $400,000 + 30,000 + 2,000 + 90 + 6$ in standard form.

ANSWER _____

- 5** Write $>$, $<$, or $=$ to compare: 708,321 ____ 708,312

ANSWER _____

- 6** Order these numbers from least to greatest: 154,908, 154,890, 154,980.

ANSWER _____

APPLY IT Show your work

- 1** The school robotics team's video had 356,482 views. What is the value of the digit 5 in this number?

WORK SPACE

ANSWER _____

- 2** A science center counted 729,106 visitors over several years. Write this number in expanded form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game scoreboard shows a six-digit score. The 6 is in the hundred-thousands place. The ten-thousands digit is 0. The hundreds digit is 4. The thousands digit is 1 greater than the hundreds digit. The ones digit is 3, and the tens digit is double the ones digit. Write the score in standard form and expanded form. Explain how you used the places.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	What is the value of the digit 7 in 476,219?	70,000
2	Write 903,458 in words.	nine hundred three thousand, four hundred fifty-eight
3	Write 621,045 in expanded form.	600,000 + 20,000 + 1,000 + 40 + 5
4	Write $400,000 + 30,000 + 2,000 + 90 + 6$ in standard form.	432,096
5	Write >, <, or = to compare: 708,321 ____ 708,312	>
6	Order these numbers from least to greatest: 154,908, 154,890, 154,980.	154,890, 154,908, 154,980

PART 2 • APPLY IT

1. **50,000** The 5 is in the ten-thousands place, so its value is 50,000.
2. **700,000 + 20,000 + 9,000 + 100 + 6** Write the value of each nonzero digit and add the values together.

CHALLENGE

605,463; $600,000 + 5,000 + 400 + 60 + 3$. The thousands digit is 5, and the tens digit is 6. The 0 in the ten-thousands place has no value.

Accept expanded forms that omit zero-value places. Accept correct word forms with or without the comma after thousand.