

Place Value Power

Build, read, and expand big whole numbers.

GRADE 4 • 4.NR.1.1

4.NR.1.1 "Read and write multi-digit whole numbers to the hundred-thousands place using base-ten numerals and expanded form."

NAME _____

DATE _____

SHOW EACH PLACE

Each digit in a whole number has a place value. To write expanded form, write the value of each nonzero digit and join the values with addition signs.

WORKED EXAMPLE

Write 593,204 in expanded form.

1. Find each nonzero digit's value:
500,000, 90,000, 3,000, 200, and 4.
2. Write the values from greatest place to least place.
3. Join the values with addition signs.

Answer: $500,000 + 90,000 + 3,000 + 200 + 4$

PRACTICE 6 problems

1 Write 326,451 in expanded form.

ANSWER _____

2 Write 700,080 in expanded form.

ANSWER _____

3 Write this expanded form as a base-ten numeral: $400,000 + 20,000 + 7,000 + 300 + 9$

ANSWER _____

4 Write 158,642 in words.

ANSWER _____

5 Write 905,060 in expanded form.

ANSWER _____

6 Write this expanded form as a base-ten numeral: $600,000 + 30,000 + 800 + 7$

ANSWER _____

APPLY IT Show your work

- 1** During one year, 231,406 people visited a science museum. Write the number of visitors in expanded form.

WORK SPACE

ANSWER _____

- 2** An animal rescue's new puppy video was watched 372,019 times. Write this number in words and in expanded form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Use each digit 0, 2, 4, 6, 8, and 9 exactly once to make the greatest six-digit number. Write the number as a base-ten numeral and in expanded form.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write 326,451 in expanded form.	300,000 + 20,000 + 6,000 + 400 + 50 + 1
2	Write 700,080 in expanded form.	700,000 + 80
3	Write this expanded form as a base-ten numeral: 400,000 + 20,000 + 7,000 + 300 + 9	427,309
4	Write 158,642 in words.	one hundred fifty-eight thousand, six hundred forty-two
5	Write 905,060 in expanded form.	900,000 + 5,000 + 60
6	Write this expanded form as a base-ten numeral: 600,000 + 30,000 + 800 + 7	630,807

PART 2 • APPLY IT

1. **200,000 + 30,000 + 1,000 + 400 + 6** Match each nonzero digit to its place value. Add the values from the hundred-thousands place through the ones place.
2. **three hundred seventy-two thousand, nineteen; 300,000 + 70,000 + 2,000 + 10 + 9** Read the thousands period first, then the ones period. In expanded form, omit the zero hundreds value.

CHALLENGE

986,420; 900,000 + 80,000 + 6,000 + 400 + 20

Accept expanded forms that include zero-value terms or omit them. Accept correct number-word forms with or without the word "and."