LESSON MAKER PRO

Place Value Builders

Read and write numbers through the hundred-thousands place.

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 _____

BUILD BIG NUMBERS

Each digit in a whole number has a value based on its place. In expanded form, write the value of each nonzero digit and add the values together.

WORKED EXAMPLE

Write 463,208 in expanded form.

1. The 4 is in the hundred-thousands place, so its value is 400,000.
2. The 6, 3, 2, and 8 have values of 60,000, 3,000, 200, and 8.
3. The 0 in the tens place has no value, so do not write a tens addend.

Answer: 400,000 + 60,000 + 3,000 + 200 + 8

PRACTICE 6 problems

1 Write 582,041 in expanded form.

ANSWER _____

2 Write this number as a base-ten numeral: 700,000 + 30,000 + 4,000 + 200 + 9

ANSWER _____

3 Write 106,530 in expanded form.

ANSWER _____

4 Write this number as a base-ten numeral: 900,000 + 8,000 + 70 + 6

ANSWER _____

5 Write 451,000 in expanded form.

ANSWER _____

6 Write this number as a base-ten numeral: 600,000 + 20,000 + 500 + 40

ANSWER _____

APPLY IT Show your work

1 A reading app recorded three hundred twelve thousand, forty-seven pages read by students last year. Write the number as a base-ten numeral and in expanded form.

WORK SPACE

ANSWER _____

2 A wildlife livestream had 480,215 views. Write this number in expanded form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mia says that 405,070 is equal to 400,000 + 5,000 + 70. Is Mia correct? Explain why zeros do not need to be written as addends.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Builders

GRADE 4 · 4.NR.1.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 582,041 in expanded form.	**500,000 + 80,000 + 2,000 + 40 + 1**
2	Write this number as a base-ten numeral: 700,000 + 30,000 + 4,000 + 200 + 9	**734,209**
3	Write 106,530 in expanded form.	**100,000 + 6,000 + 500 + 30**
4	Write this number as a base-ten numeral: 900,000 + 8,000 + 70 + 6	**908,076**
5	Write 451,000 in expanded form.	**400,000 + 50,000 + 1,000**
6	Write this number as a base-ten numeral: 600,000 + 20,000 + 500 + 40	**620,540**

PART 2 · APPLY IT

1. **312,047; 300,000 + 10,000 + 2,000 + 40 + 7** Write 312,047 by placing each named value in its correct place. Then add the values of the nonzero digits.
2. **400,000 + 80,000 + 200 + 10 + 5** Use the value of each nonzero digit. The thousands digit is 0, so it does not make an addend.

CHALLENGE

Yes. 405,070 has 400,000, 5,000, and 70. The digits in the ten-thousands, hundreds, and ones places are 0, so their values are 0 and do not need to be added.

Accept expanded forms with zero-value addends, such as + 0, if all nonzero place values are correct. Accept commas or no commas in base-ten numerals if the digits are in the correct order.