LESSON MAKER PRO

Number Code Breakers

Read and write numbers in three forms.

GRADE 4 · 4.NOS.A.1.a

4.NOS.A.1.a "Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form."

NAME _____ DATE _____

THREE WAYS TO SHOW A NUMBER

A number can be written as a numeral, a number name, or a sum called expanded form. In expanded form, write the value of each nonzero digit. Keep zeros in the numeral to hold their places, but leave zero-value parts out of the sum.

WORKED EXAMPLE

Write 305,408 in expanded form and as a number name.

1. The nonzero digits have values of 300,000, 5,000, 400, and 8.
2. Add those values: 300,000 + 5,000 + 400 + 8.
3. Read the thousands group, then the ones group: three hundred five thousand, four hundred eight.

Answer: Expanded form: 300,000 + 5,000 + 400 + 8. Number name: three hundred five thousand, four hundred eight.

PRACTICE 6 problems

1 Write 682,041 as a number name.

ANSWER _____

2 Write 904,070 in expanded form.

ANSWER _____

3 Write seven hundred twelve thousand, six hundred nine as a numeral.

ANSWER _____

4 Write 500,000 + 30,000 + 2,000 + 90 + 4 as a numeral.

ANSWER _____

5 Write 4,018,305 as a number name and in expanded form.

ANSWER _____

6 Write 600,000 + 7,000 + 50 + 2 as a numeral and a number name.

ANSWER _____

APPLY IT Show your work

1 A nature livestream had 1,203,040 views. Write the view count as a number name and in expanded form.

WORK SPACE

ANSWER _____

2 A game scoreboard shows a team's total as 700,000 + 40,000 + 9,000 + 80 + 1 points. Write the score as a numeral and a number name.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A video game tournament score has 3 millions, 0 hundred thousands, 5 ten thousands, 0 thousands, 2 hundreds, 0 tens, and 7 ones. Write the numeral, number name, and expanded form. Explain why the expanded form has four addends.

WORK SPACE AND ANSWER

ANSWER KEY

Number Code Breakers

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 682,041 as a number name.	**six hundred eighty-two thousand, forty-one**
2	Write 904,070 in expanded form.	**900,000 + 4,000 + 70**
3	Write seven hundred twelve thousand, six hundred nine as a numeral.	**712,609**
4	Write 500,000 + 30,000 + 2,000 + 90 + 4 as a numeral.	**532,094**
5	Write 4,018,305 as a number name and in expanded form.	**Number name: four million, eighteen thousand, three hundred five. Expanded form: 4,000,000 + 10,000 + 8,000 + 300 + 5.**
6	Write 600,000 + 7,000 + 50 + 2 as a numeral and a number name.	**Numeral: 607,052. Number name: six hundred seven thousand, fifty-two.**

PART 2 · APPLY IT

1. **Number name: one million, two hundred three thousand, forty. Expanded form: 1,000,000 + 200,000 + 3,000 + 40.** Read the numeral in groups to name it. Add the values of its nonzero digits to write expanded form.
2. **Numeral: 749,081. Number name: seven hundred forty-nine thousand, eighty-one.** Place each addend's digit in its matching place. Use zeros to hold the empty hundreds and tens of thousands? No, the empty place is hundreds only.

CHALLENGE

Numeral: 3,050,207. Number name: three million, fifty thousand, two hundred seven. Expanded form: 3,000,000 + 50,000 + 200 + 7. There are four addends because only four digits have nonzero values.

Accept expanded sums with the correct place values in a different order. Commas in number names are optional.