LESSON MAKER PRO

Number Form Quest

Read, write, and break apart numbers to 10,000.

GRADE 3 · 3.NR.1.1

3.NR.1.1 "Read and write multi-digit whole numbers up to 10,000 to the thousands using base-ten numerals and expanded form."

NAME _____ DATE _____

PLACE VALUE FORMS

Each digit has a value based on its place: thousands, hundreds, tens, or ones. Expanded form shows the value of each digit added together. You may leave out a place that has a value of 0.

WORKED EXAMPLE

Write 6,482 in expanded form.

1. The 6 is worth 6,000.
2. The 4 is worth 400.
3. The 8 is worth 80.
4. The 2 is worth 2, so add the values.

Answer: 6,000 + 400 + 80 + 2

PRACTICE 6 problems

1 Write 3,704 in expanded form.

ANSWER _____

2 Write this number in base-ten numerals: 8,000 + 500 + 60 + 9

ANSWER _____

3 Write 9,120 in words.

ANSWER _____

4 Write 4,038 in expanded form.

ANSWER _____

5 Write this number in base-ten numerals: seven thousand ninety-five

ANSWER _____

6 Write 2,650 in expanded form and in words.

ANSWER _____

APPLY IT Show your work

1 A video game scoreboard shows 5,307 points. Write the score in expanded form.

WORK SPACE

ANSWER _____

2 A museum sign says that 7,040 people visited a dinosaur exhibit. Write the number of visitors in words.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Mia says that 9,909 is 9,000 + 900 + 9. Is Mia correct? Write the number in expanded form and explain why.

_____

_____

ANSWER KEY

Number Form Quest

GRADE 3 · 3.NR.1.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 3,704 in expanded form.	**3,000 + 700 + 4**
2	Write this number in base-ten numerals: 8,000 + 500 + 60 + 9	**8,569**
3	Write 9,120 in words.	**nine thousand one hundred twenty**
4	Write 4,038 in expanded form.	**4,000 + 30 + 8**
5	Write this number in base-ten numerals: seven thousand ninety-five	**7,095**
6	Write 2,650 in expanded form and in words.	**2,000 + 600 + 50; two thousand six hundred fifty**

PART 2 · APPLY IT

1. **5,000 + 300 + 7** The 5 is in the thousands place, the 3 is in the hundreds place, and the 7 is in the ones place. The tens digit is 0, so it may be left out.
2. **seven thousand forty** Read 7 thousands and 4 tens. There are no hundreds or ones to name.

CHALLENGE

Yes. 9,909 = 9,000 + 900 + 9 because the tens digit is 0, so there are 0 tens to add.

Accept expanded forms that include zero-value places, such as 3,000 + 700 + 0 + 4. Accept number words with or without “and” if the number value is correct.