LESSON MAKER PRO

Place Value Power

Show what each digit is worth.

GRADE 3 · NY-3.NBT.4.a

NY-3.NBT.4.a "Understand that the digits of a four-digit number represent amounts of thousands, hundreds, tens, and ones."

NAME _____ DATE _____

EACH DIGIT HAS A PLACE

In a four-digit number, the places from left to right are thousands, hundreds, tens, and ones. A digit's value depends on its place. You can write a number in expanded form by adding the value of each digit.

WORKED EXAMPLE

Write 6,731 in expanded form.

1. The 6 is in the thousands place, so its value is 6,000.
2. The 7 is in the hundreds place, so its value is 700.
3. The 3 is in the tens place, so its value is 30.
4. The 1 is in the ones place, so its value is 1. Add the values.

Answer: 6,000 + 700 + 30 + 1

PRACTICE 6 problems

1 What is the value of the digit 4 in 4,259?

ANSWER _____

2 What is the value of the digit 7 in 3,786?

ANSWER _____

3 Write 8,042 in expanded form.

ANSWER _____

4 Write this number in standard form: 9,000 + 500 + 60 + 1

ANSWER _____

5 In 2,614, which digit is in the tens place?

ANSWER _____

6 In 6,078, how many hundreds does the digit 0 represent?

ANSWER _____

APPLY IT Show your work

1 Jordan has 4,628 game cards. What is the value of the digit 6 in this number?

WORK SPACE

ANSWER

2 A concert hall has 3,405 seats. Write the number of seats in expanded form.

WORK SPACE

ANSWER

CHALLENGE One step up

Mia says that all four 4s in 4,444 have the same value. Explain why Mia is incorrect. Tell the value of each 4.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Power

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What is the value of the digit 4 in 4,259?	**4,000**
2	What is the value of the digit 7 in 3,786?	**700**
3	Write 8,042 in expanded form.	**8,000 + 40 + 2**
4	Write this number in standard form: 9,000 + 500 + 60 + 1	**9,561**
5	In 2,614, which digit is in the tens place?	**1**
6	In 6,078, how many hundreds does the digit 0 represent?	**0 hundreds**

PART 2 · APPLY IT

1. **600** The 6 is in the hundreds place. Its value is 600.
2. **3,000 + 400 + 5** The digits represent 3 thousands, 4 hundreds, 0 tens, and 5 ones.

CHALLENGE

The 4s represent 4,000, 400, 40, and 4. Their places are different.

Accept expanded forms that include zero-value terms, such as 8,000 + 0 + 40 + 2. Accept correct word explanations that identify the four place values in the challenge.