

Place Value Switch

Show each four-digit number in different ways.

GRADE 3 • NY-3.NBT.4.b

NY-3.NBT.4.b "Read and write four digit numbers using base-ten numerals, number names, and expanded form."

NAME _____

DATE _____

ONE NUMBER, THREE FORMS

A four-digit number can be written as a base-ten numeral, a number name, or expanded form. Read the digits from thousands to ones, and use each digit's place value. A zero has no value in its place, but it still holds that place.

WORKED EXAMPLE

Write 6,724 in expanded form and as a number name.

1. Read the digits by place: 6 thousands, 7 hundreds, 2 tens, and 4 ones.
2. Write the place values: $6,000 + 700 + 20 + 4$.
3. Write the number name in order from thousands to ones.

Answer: $6,000 + 700 + 20 + 4$; six thousand seven hundred twenty-four

PRACTICE 6 problems

- 1** Write four thousand three hundred eight as a base-ten numeral.

ANSWER _____

- 2** Write 7,050 in expanded form.

ANSWER _____

- 3** Write $2,000 + 600 + 90 + 4$ as a number name.

ANSWER _____

- 4** Write nine thousand one hundred six in expanded form.

ANSWER _____

- 5** Write 5,040 as a number name and in expanded form.

ANSWER _____

- 6** Write $3,000 + 80 + 7$ as a base-ten numeral.

ANSWER _____

APPLY IT Show your work

- 1** At the school book fair, a sign says that three thousand eight hundred nineteen books were sold. Write this number as a base-ten numeral and in expanded form.

WORK SPACE

ANSWER _____

- 2** A skate park counter recorded 9,060 visits this month. Write the number as a number name and in expanded form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A science museum display has 8 thousands, 14 hundreds, 3 tens, and 12 ones. Regroup as needed. Write the final number as a base-ten numeral, a number name, and standard expanded form. Explain what you regrouped.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write four thousand three hundred eight as a base-ten numeral.	4,308
2	Write 7,050 in expanded form.	7,000 + 50
3	Write $2,000 + 600 + 90 + 4$ as a number name.	two thousand six hundred ninety-four
4	Write nine thousand one hundred six in expanded form.	9,000 + 100 + 6
5	Write 5,040 as a number name and in expanded form.	five thousand forty; $5,000 + 40$
6	Write $3,000 + 80 + 7$ as a base-ten numeral.	3,087

PART 2 • APPLY IT

1. **3,819; $3,000 + 800 + 10 + 9$** Use the words to identify 3 thousands, 8 hundreds, 1 ten, and 9 ones. Write each nonzero place value as an addend.
2. **nine thousand sixty; $9,000 + 60$** The 0 in the hundreds place has no value, but it keeps the 6 in the tens place. Name and expand the nonzero place values.

CHALLENGE

9,442; nine thousand four hundred forty-two; $9,000 + 400 + 40 + 2$. Regroup 14 hundreds as 1 thousand 4 hundreds, and regroup 12 ones as 1 ten 2 ones.

Accept expanded forms that omit zero-value places. Accept standard number-name punctuation and hyphenation if the value and place values are correct.