LESSON MAKER PRO

Place Value Power

Read, write, and compare large whole numbers.

GRADE 4 · 4.NBT.A.2

CCSS.Math.Content.4.NBT.A.2 "Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =..."

NAME _____ DATE _____

USE EACH PLACE

Each digit has a value based on its place. To compare two numbers, start at the left and compare digits until you find a place with different digits. The number with the larger digit in that place is greater.

WORKED EXAMPLE

Write 63,482 in expanded form. Then compare 63,482 and 63,428 using a symbol.

1. The digits show 6 ten-thousands, 3 thousands, 4 hundreds, 8 tens, and 2 ones.
2. Write 60,000 + 3,000 + 400 + 80 + 2.
3. The digits are the same through the hundreds place.
4. In the tens place, 8 tens is greater than 2 tens.

Answer: 60,000 + 3,000 + 400 + 80 + 2; 63,482 > 63,428

PRACTICE 6 problems

1 Write five hundred six thousand, seventy-four as a base-ten numeral.

ANSWER _____

2 Write 720,309 in number-name form.

ANSWER _____

3 Write 408,215 in expanded form.

ANSWER _____

4 Write 900,000 + 30,000 + 700 + 6 as a base-ten numeral.

ANSWER _____

5 Write >, <, or = to compare the numbers: 675,091 ___ 675,190

ANSWER _____

6 Write >, <, or = to compare the numbers: 802,450 ___ 799,999

ANSWER _____

APPLY IT Show your work

1 At a video game design contest, Pixel Pals received 452,781 votes. Code Crew received 452,718 votes. Which team received more votes? Record the comparison using >, <, or =.

WORK SPACE

ANSWER _____

2 A school reading challenge logged 608,045 pages read. Write this number in expanded form and number-name form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Put these numbers in order from least to greatest. Then explain how you used place value to order them: four hundred five thousand, nine hundred; 450,009; 400,000 + 5,000 + 90.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Power

GRADE 4 · 4.NBT.A.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write five hundred six thousand, seventy-four as a base-ten numeral.	**506,074**
2	Write 720,309 in number-name form.	**seven hundred twenty thousand, three hundred nine**
3	Write 408,215 in expanded form.	**400,000 + 8,000 + 200 + 10 + 5**
4	Write 900,000 + 30,000 + 700 + 6 as a base-ten numeral.	**930,706**
5	Write >, <, or = to compare the numbers: 675,091 ___ 675,190	**675,091 < 675,190**
6	Write >, <, or = to compare the numbers: 802,450 ___ 799,999	**802,450 > 799,999**

PART 2 · APPLY IT

1. **Pixel Pals; 452,781 > 452,718** The digits through the hundreds place are the same. The tens digits determine the comparison because 8 tens is greater than 1 ten.
2. **600,000 + 8,000 + 40 + 5; six hundred eight thousand forty-five** The 0 shows there are no ten-thousands or hundreds. Add the values of the digits that are not zero.

CHALLENGE

405,090 < 405,900 < 450,009. The first two numbers both have 405 thousand, but 405,090 has 0 hundreds and 405,900 has 9 hundreds. The last number has 450 thousand, so it is greatest.

Accept equivalent expanded forms that include zero-value places, such as 400,000 + 8,000 + 0 + 200 + 10 + 5. Accept correctly spelled number names with or without the word "and."