LESSON MAKER PRO

Number Showdown

Compare big numbers, one place at a time.

GRADE 4 · 4.NBT.A.8

4.NBT.A.8 "Use place value understanding to compare two multi-digit numbers using >, =, and < symbols."

NAME _____ DATE _____

COMPARE BY PLACE

A whole number with more digits is greater than one with fewer digits. When two numbers have the same number of digits, compare from left to right. At the first place where the digits differ, the larger digit tells you which number is greater. If every digit matches, use =.

WORKED EXAMPLE

Compare 582,406 and 579,821 using >, =, or <.

1. Both numbers have 5 in the hundred-thousands place.
2. The ten-thousands digits are 8 and 7.
3. Since 8 > 7, 582,406 > 579,821.

Answer: 582,406 > 579,821

PRACTICE 6 problems

1 Write >, =, or < in the blank: 436,218 ___ 463,218

ANSWER _____

2 Write >, =, or < in the blank: 708,045 ___ 708,405

ANSWER _____

3 Write >, =, or < in the blank: 92,600 ___ 102,600

ANSWER _____

4 Write >, =, or < in the blank: 615,030 ___ 615,030

ANSWER _____

5 Write >, =, or < in the blank: 841,907 ___ 841,790

ANSWER _____

6 Write >, =, or < in the blank: 300,019 ___ 299,999

ANSWER _____

APPLY IT Show your work

1 In a month-long walking challenge, the Comets took 247,580 steps and the Rockets took 247,508 steps. Which team took more steps? Write a comparison using > or <.

WORK SPACE

ANSWER _____

2 Two online games are counting plays. Dragon Quest has 1,206,315 plays, and Space Sprint has 1,260,315 plays. Which game has more plays? Write a comparison using > or <.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use each digit 0, 2, 4, 6, 8, and 9 once to make the greatest six-digit number less than 900,000. Compare your number with 896,402 using >, =, or <. Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Number Showdown

GRADE 4 · 4.NBT.A.8

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write >, =, or < in the blank: 436,218 ___ 463,218	**<**
2	Write >, =, or < in the blank: 708,045 ___ 708,405	**<**
3	Write >, =, or < in the blank: 92,600 ___ 102,600	**<**
4	Write >, =, or < in the blank: 615,030 ___ 615,030	**=**
5	Write >, =, or < in the blank: 841,907 ___ 841,790	**>**
6	Write >, =, or < in the blank: 300,019 ___ 299,999	**>**

PART 2 · APPLY IT

1. **The Comets took more steps. 247,580 > 247,508.** The digits match through the hundreds place. In the tens place, 8 is greater than 0.
2. **Space Sprint has more plays. 1,206,315 < 1,260,315.** The millions and hundred-thousands digits match. In the ten-thousands place, 0 is less than 6.

CHALLENGE

896,420 > 896,402. To stay below 900,000, the greatest possible first digit is 8. Putting the remaining digits in order from greatest to least makes 896,420. The numbers match through the hundreds place, but 2 tens is greater than 0 tens.

Accept either order for each word-problem comparison if the symbol is reversed correctly. For the challenge, accept explanations that correctly show why 896,420 is the greatest possible number and why it is greater than 896,402.