

Place Value Showdown

Compare multi-digit numbers using place value.

GRADE 4 • NY-4.NBT.2.b

NY-4.NBT.2.b "Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons."

NAME _____

DATE _____

START AT THE GREATEST PLACE

Compare the digits in the greatest place first. If the digits match, move one place to the right until you find different digits. The number with the greater digit in that place is the greater number.

WORKED EXAMPLE

Compare 672,418 and 671,945.

Write $>$, $=$, or $<$.

1. Compare the hundred-thousands digits: 6 and 6 are equal.
2. Compare the ten-thousands digits: 7 and 7 are equal.
3. Compare the thousands digits: 2 is greater than 1.
4. So the first number is greater.

Answer: 672,418 $>$ 671,945

PRACTICE 6 problems

1 45,209 ____ 45,290

ANSWER _____

2 308,765 ____ 308,756

ANSWER _____

3 700,040 ____ 700,040

ANSWER _____

4 96,502 ____ 105,002

ANSWER _____

5 524,109 ____ 524,190

ANSWER _____

6 830,000 ____ 829,999

ANSWER _____

APPLY IT Show your work

- 1** In a video game tournament, Jada earned 245,608 points. Amir earned 245,680 points. Write a comparison using $>$, $=$, or $<$.

WORK SPACE

ANSWER _____

- 2** Two classes collected cans for a food drive. Class 4A collected 153,421 cans, and Class 4B collected 153,241 cans. Write a comparison using $>$, $=$, or $<$.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Maya says that $406,305 > 406,350$ because 5 is greater than 0 in the ones place. Is Maya correct? Write the correct comparison and explain which place decides the comparison.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	45,209 ___ 45,290	45,209 < 45,290
2	308,765 ___ 308,756	308,765 > 308,756
3	700,040 ___ 700,040	700,040 = 700,040
4	96,502 ___ 105,002	96,502 < 105,002
5	524,109 ___ 524,190	524,109 < 524,190
6	830,000 ___ 829,999	830,000 > 829,999

PART 2 • APPLY IT

1. **245,608 < 245,680** The hundred-thousands, ten-thousands, thousands, and hundreds digits match. In the tens place, 0 is less than 8, so Jada earned fewer points.
2. **153,421 > 153,241** The digits match through the thousands place. In the hundreds place, 4 is greater than 2, so Class 4A collected more cans.

CHALLENGE

No. 406,305 < 406,350 because the tens digits decide the comparison: 0 tens is less than 5 tens.

Accept the correct comparison symbol or a complete comparison sentence. For the challenge, accept explanations that identify the tens place as the first place with different digits.