LESSON MAKER PRO

Place Value Playoffs

Compare numbers by looking at each place.

GRADE 4 · 4.N.1

4.N.1 "Compare and represent whole numbers up to 1,000,000 with an emphasis on place value and equality. Read, write, discuss, and represent whole numbers up to 1,000,000. Representations may include numerals, words, pictures, number lines..."

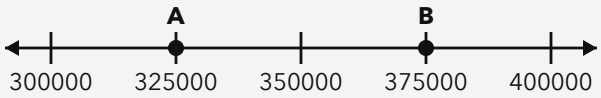
NAME _____ DATE _____

COMPARE FROM THE LEFT

Compare digits from left to right, starting with the greatest place. The first place with different digits tells you which number is greater. If every digit matches, the numbers are equal.

WORKED EXAMPLE

Compare A and B. Write an inequality using their values.



1. A is 325,000. B is 375,000.
2. The hundred-thousands digits match. At ten-thousands, 2 < 7.

Answer: 325,000 < 375,000

PRACTICE 4 problems

1 Fill in <, >, or =: 604,080 ___ 604,800

ANSWER _____

2 Fill in <, >, or =: 90,000 + 7,000 + 50 ___ 97,050

ANSWER _____

3 Order from least to greatest: 418,900; 481,090; 418,090

ANSWER _____

4 Which is greater, 700,501 or 699,999? Name the place that decides.

ANSWER _____

APPLY IT Show your work

1 At an arcade, Mia scores 506,040 and Lee scores 506,400. Who scores more? Write an inequality.

WORK SPACE

ANSWER _____

2 These teams earned points in a game. Which two teams have equal scores? Write an equation.

GAME SCORES

Team	Points
Foxes	409,090
Owls	400,000 + 9,000 + 90
Bears	490,009

ANSWER _____

CHALLENGE One step up

Use 0, 1, 4, 5, 8, and 9 once each to make the greatest six-digit number less than 500,000. Explain your choice.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Playoffs

GRADE 4 · 4.N.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Fill in <, >, or =: 604,080 ___ 604,800	**<**
2	Fill in <, >, or =: 90,000 + 7,000 + 50 ___ 97,050	**=**
3	Order from least to greatest: 418,900; 481,090; 418,090	**418,090; 418,900; 481,090**
4	Which is greater, 700,501 or 699,999? Name the place that decides.	**700,501; hundred-thousands place**

PART 2 · APPLY IT

1. **Lee; 506,040 < 506,400** The hundred-thousands and ten-thousands digits match. At the hundreds place, Lee has 4 and Mia has 0.
2. **Foxes and Owls; 409,090 = 400,000 + 9,000 + 90** The Owls' expanded form equals 409,090, which matches the Foxes' score.

CHALLENGE

498,510. The first digit must be 4, and the remaining digits go from greatest to least.

For comparison problems, accept an equivalent correct inequality. For the challenge, accept any explanation that shows why 4 must come first and why the other digits are in descending order.