LESSON MAKER PRO

Number Place Showdown

Compare and order whole numbers through one billion.

GRADE 4 · TEKS 4.2.C

4.2.C "compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols >, <, or =;"

NAME _____ DATE _____

COMPARE BY PLACE VALUE

Line up the digits by place value and compare from left to right. The first place where the digits are different tells which number is greater. A number with more digits is greater than a number with fewer digits.

WORKED EXAMPLE

Compare 407,305,018 and 407,350,018. Write <, >, or =.

1. Both numbers have 407 million.
2. Compare the next three digits: 305 and 350.
3. Since 305 is less than 350, the first number is less.

Answer: 407,305,018 < 407,350,018

PRACTICE 6 problems

1 Write <, >, or =. 628,041,900 ___ 628,041,090

ANSWER _____

2 Write <, >, or =. 75,900,120 ___ 76,001,002

ANSWER _____

3 Write <, >, or =. 999,999,999 ___ 1,000,000,000

ANSWER _____

4 Write <, >, or =. 510,008,040 ___ 510,008,040

ANSWER _____

5 Order these numbers from least to greatest: 208,700,010; 208,070,100; 280,007,001

ANSWER _____

6 Order these numbers from greatest to least: 600,600,006; 600,060,600; 606,000,060

ANSWER _____

APPLY IT Show your work

1 The City Science Museum counted 375,406,210 online views for its Ocean Lab exhibit. Its Space Explorer exhibit had 375,460,201 online views. Which exhibit had more views? Write a comparison using <, >, or =.

WORK SPACE

ANSWER _____

2 Three game levels were played this many times: Forest Quest, 902,010,500 times; Sky Race, 920,001,050 times; and Robot Rescue, 902,100,005 times. Order the levels from greatest number of plays to least number of plays.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Without subtracting, explain why 620,004,009 > 619,999,999.

WORK SPACE AND ANSWER

ANSWER KEY

Number Place Showdown

GRADE 4 · TEKS 4.2.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =. 628,041,900 ___ 628,041,090	**>**
2	Write <, >, or =. 75,900,120 ___ 76,001,002	**<**
3	Write <, >, or =. 999,999,999 ___ 1,000,000,000	**<**
4	Write <, >, or =. 510,008,040 ___ 510,008,040	**=**
5	Order these numbers from least to greatest: 208,700,010; 208,070,100; 280,007,001	**208,070,100, 208,700,010, 280,007,001**
6	Order these numbers from greatest to least: 600,600,006; 600,060,600; 606,000,060	**606,000,060, 600,600,006, 600,060,600**

PART 2 · APPLY IT

1. **Space Explorer had more views. 375,406,210 < 375,460,201.** Both numbers have 375 million. Compare 406,210 with 460,201, so the Space Explorer total is greater.
2. **Sky Race, Robot Rescue, Forest Quest** Sky Race has 920 million plays, which is more than either total with 902 million. Between the other two, 902,100,005 is greater than 902,010,500.

CHALLENGE

620,004,009 has 620 million, and 619,999,999 has 619 million. Since 620 million is greater than 619 million, 620,004,009 > 619,999,999.

Accept correct comparison symbols and correctly ordered lists. For the challenge, accept correct comparison of the millions groups (620 million versus 619 million) or the first differing digit place: tens of millions, where 2 is greater than 1. The hundred-millions digits are both 6.