

Number Lineup

Compare place values to put big numbers in order.

GRADE 4 • 4.NS.2.b

4.NS.2.b "Order up to four whole numbers up to seven digits each, from least to greatest or greatest to least."

NAME _____

DATE _____

COMPARE FROM THE LEFT

To order whole numbers, compare the digits starting at the greatest place value on the left. When you find the first place where the digits differ, the number with the smaller digit is smaller. Reverse the order for greatest to least.

WORKED EXAMPLE

Order from least to greatest:
3,482,190; 3,428,901; 3,482,109

1. All three numbers have 3 in the millions place.
2. At the ten-thousands place, 2 is less than 8, so 3,428,901 comes first.
3. For the other two numbers, 0 is less than 9 in the tens place, so 3,482,109 comes before 3,482,190.

**Answer: 3,428,901; 3,482,109;
3,482,190**

PRACTICE 6 problems

- 1** Order from least to greatest: 456,789;
456,798; 456,709

ANSWER _____

- 2** Order from greatest to least: 900,001;
89,999; 1,000,000; 999,999

ANSWER _____

- 3** Order from least to greatest: 7,102,354;
7,012,345; 7,120,345; 7,102,345

ANSWER _____

- 4** Order from greatest to least: 6,000,700;
6,070,000; 6,000,070; 6,007,000

ANSWER _____

- 5** Order from least to greatest: 4,050,020;
4,005,200; 4,050,002

ANSWER _____

- 6** Order from greatest to least: 999,090;
1,000,009; 999,900; 1,000,090

ANSWER _____

APPLY IT Show your work

- 1** Four robotics teams collected bottle caps for a recycling contest. The teams collected 127,405, 127,450, 172,045, and 127,045 caps. List the amounts from greatest to least.

WORK SPACE

ANSWER _____

- 2** Three videos made by the school news club received 3,450,012, 3,405,210, and 3,450,102 views. List the view counts from least to greatest.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Order from greatest to least: 5,555,055; 5,550,555; 5,555,550; 5,555,505. Then write one sentence explaining how you decided which number was greatest.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Order from least to greatest: 456,789; 456,798; 456,709	456,709; 456,789; 456,798
2	Order from greatest to least: 900,001; 89,999; 1,000,000; 999,999	1,000,000; 999,999; 900,001; 89,999
3	Order from least to greatest: 7,102,354; 7,012,345; 7,120,345; 7,102,345	7,012,345; 7,102,345; 7,102,354; 7,120,345
4	Order from greatest to least: 6,000,700; 6,070,000; 6,000,070; 6,007,000	6,070,000; 6,007,000; 6,000,700; 6,000,070
5	Order from least to greatest: 4,050,020; 4,005,200; 4,050,002	4,005,200; 4,050,002; 4,050,020
6	Order from greatest to least: 999,090; 1,000,009; 999,900; 1,000,090	1,000,090; 1,000,009; 999,900; 999,090

PART 2 • APPLY IT

- 172,045; 127,450; 127,405; 127,045** Compare the hundred-thousands digits first. For the three amounts with 127 thousand, compare the remaining digits to place them in greatest-to-least order.
- 3,405,210; 3,450,012; 3,450,102** The number with 405 thousand is the smallest. Then compare 3,450,012 and 3,450,102 from left to right.

CHALLENGE

5,555,550; 5,555,505; 5,555,055; 5,550,555. I compared digits from left to right, and 5,555,550 was greatest because it has the greatest digits at the first places where the numbers differ.

Accept numbers in the correct requested order, with or without commas. For the challenge, accept any accurate explanation that compares place values from left to right.