LESSON MAKER PRO

Number Line Detectives

Plot, compare, and order whole numbers to 1,000,000.

GRADE 4 · MA.4.NSO.1.3

MA.4.NSO.1.3 "Plot, order and compare multi-digit whole numbers up to 1,000,000."

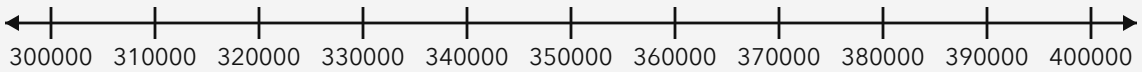
NAME _____ DATE _____

COMPARE FROM THE LEFT

To compare whole numbers, look at the digits from left to right. The first place where the digits are different tells which number is greater. To plot a number, find the two labeled values it falls between and place it in the correct spot.

WORKED EXAMPLE

Plot 340,000 on the number line.

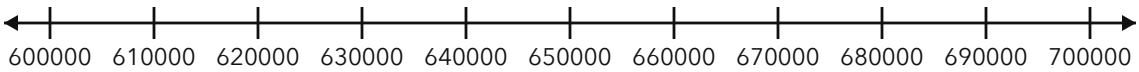


1. The number line starts at 300,000 and counts by 10,000.
2. 340,000 is 40,000 more than 300,000.
3. Move four tick marks to the right from 300,000.
4. Place a point at 340,000.

Answer: Point at 340,000

PRACTICE 6 problems

1 Plot point B at 660,000 on the number line.



ANSWER _____

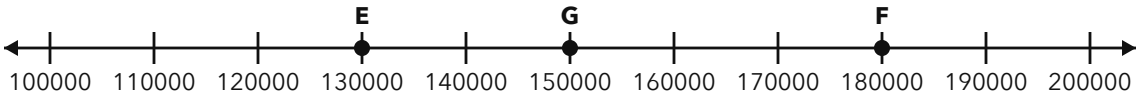
2 Write <, >, or = to compare the numbers. 508,204 ___ 508,240

ANSWER _____

3 Order these numbers from least to greatest: 721,090; 712,900; 721,009; 720,190

ANSWER _____

4 Use the points on the number line. Order the points from least to greatest.



ANSWER _____

5 Write <, >, or = to compare the numbers. 999,999 ___ 1,000,000

ANSWER _____

6 Order these numbers from greatest to least: 405,050; 450,005; 405,500; 450,050

ANSWER _____

APPLY IT Show your work

1 In a school readathon, Maya read 486,215 words, Luis read 468,521 words, and Nia read 486,125 words. Order their word totals from greatest to least. Who read the most words?

WORK SPACE

ANSWER _____

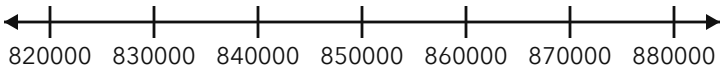
2 Four players earned these scores in a video game tournament: 905,840, 950,076, 905,999, and 950,012. List the scores from highest to lowest. Which two players finished first and second?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Plot point J at 825,000, point K at 874,000, and point L at 842,000 on the number line. Then list the points from least to greatest and explain how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Number Line Detectives

GRADE 4 · MA.4.NSO.1.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Plot point B at 660,000 on the number line.	**Point B at 660,000**
2	Write <, >, or = to compare the numbers. 508,204 ___ 508,240	**508,204 < 508,240**
3	Order these numbers from least to greatest: 721,090; 712,900; 721,009; 720,190	**712,900; 720,190; 721,009; 721,090**
4	Use the points on the number line. Order the points from least to greatest.	**E, G, F**
5	Write <, >, or = to compare the numbers. 999,999 ___ 1,000,000	**999,999 < 1,000,000**
6	Order these numbers from greatest to least: 405,050; 450,005; 405,500; 450,050	**450,050; 450,005; 405,500; 405,050**

PART 2 · APPLY IT

1. **486,215; 486,125; 468,521. Maya read the most words.** Compare the hundred-thousands digits first. Maya's and Nia's totals both have 486 thousand, and 486,215 is greater than 486,125.
2. **950,076; 950,012; 905,999; 905,840. The players with 950,076 and 950,012 finished first and second.** The scores in the 950,000 range are greater than the scores in the 905,000 range. Then compare the remaining digits within each range.

CHALLENGE

J at 825,000, K at 874,000, and L at 842,000. From least to greatest: J, L, K. The values are 825,000, 842,000, and 874,000, so compare the ten-thousands and thousands digits after the 800,000 digit.

Accept correctly placed points between labeled tick marks. For comparison explanations, accept any accurate statement that uses the first place value where the numbers differ.