Name _____

Compare and Order Numbers

(**I Can**) use number lines and symbols to compare and order numbers.

🔓 UNLOCK the Problem Real World

Grand Canyon National Park in Arizona had 651,028 visitors in May 2018 and 665,188 visitors in May 2019. In which year did the park have more visitors during the month of May?

- How many visitors were there in May 2018?

  _____

- How many visitors were there in May 2019?

  _____

Example 1 Use a place-value chart.

You can use a place-value chart to line up the digits by place value. Line up the ones with the ones, the tens with the tens, and so on. Compare 651,028 and 665,188.

Write 651,028 and 665,188 in the place-value chart below.

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones

Start at the left. Compare the digits in each place-value position until the digits differ.

STEP 1 Compare the hundred thousands.

651,028

665,188

6 hundred thousands ◯ 6 hundred thousands
⌐ Write <, >, or =.

The digits in the hundred thousands place are the same.

STEP 2 Compare the ten thousands.

651,028

665,188

5 ten thousands ◯ 6 ten thousands
⌐ Write <, >, or =.

5 ten thousands is less than 6 ten thousands, so 651,028 < 665,188.

Since 651,028 < 665,188, there were more visitors in May 2019 than in May 2018.

(**Go Online**) For more help

Example 2 Use a number line to order 10,408; 10,433; and 10,416 from least to greatest.

Locate and label each point on the number line. The first one is done for you.

10,408
↓

←++++++++|++++◆++|++++++++|++++++++|++++++++|++++++++|→
10,400   10,410   10,420   10,430   10,440   10,450
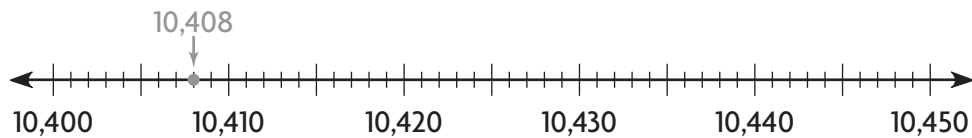
Think: Numbers to the left are closer to 0.

So, the numbers from least to greatest are 10,408; 10,416; and 10,433.
$10,408 < 10,416 < 10,433$

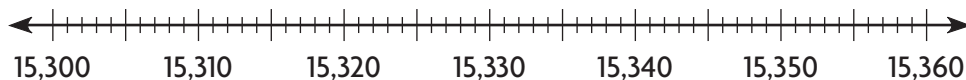## Share and Show Math Board

1. Compare 15,327 and 15,341.
   Write $<$, $>$, or $=$. Use the number line to help.

←++++++++|++++++++|++++++++|++++++++|++++++++|++++++++|→
15,300   15,310   15,320   15,330   15,340   15,350   15,360

15,327 ◯ 15,341

Compare. Write $<$, $>$, or $=$. Use a number line, if needed.

2. $631,328 ◯ $1,000,000

✓ 3. 56,991 ◯ 52,880

4. 708,561 ◯ 629,672

5. 143,062 ◯ 98,643

✓ 6. Plot the numbers on the number line. Then order them from greatest to least.
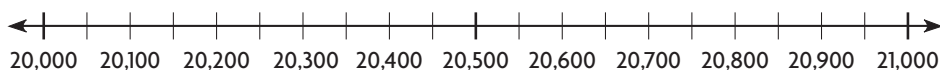
Math Talk

MTR 4.1 Engage in discussions on mathematical thinking.

Why do you not start with the ones digits when comparing three multi-digit numbers?

←+—+—+—+—+—+—+—+—+—+—+—+→
20,000 20,100 20,200 20,300 20,400 20,500 20,600 20,700 20,800 20,900 21,000

20,620; 20,890; 20,150

On Your Own

Compare. Write $<$, $>$, or $=$. Use a number line, if needed.

7. $2,212 $\bigcirc$ $2,600

8. 88,304 $\bigcirc$ 88,304

9. $524,116 $\bigcirc$ $61,090

10. 751,272 $\bigcirc$ 851,001

Order from least to greatest. Use a number line, if needed.

11. 41,090; 41,190; 40,009

12. 910,763; 912,005; 95,408

_____

_____

MTR **Write all of the digits that can replace each ▪.**

13. $567 < 5\blacksquare5 < 582$

14. $464,545 > 4\blacksquare3,535 > 443,550$

_____

_____

15. Minho's car has 156,261 miles on the odometer. Lucia's car has 165,002 miles on the odometer. Yakov's car has 145,834 miles on the odometer. Whose car has the most miles? Order the number of miles from least to greatest.

_____

16. At Lupita's Used Cars, the sales staff set a goal of $25,500 in sales each week. The sales for three weeks were $28,288; $25,369; and $25,876. Which total did not meet the goal?

_____

17. Max said that 36,594 is less than 5,980 because 3 is less than 5. Describe Max's error and give the correct answer.

_____

_____

Problem Solving · Applications Real World

Use the picture graph for Problems 18–20.

18. **MTR** In which month shown did Grand Canyon National Park have about 7,500 tent campers?

   _____

19. How many more campers were there in July and August than in June and September?

   _____

20. What if during the month of October, the park had 22,500 tent campers? How many symbols would be placed on the picture graph for October?

   _____

21. Compare: 643,251; 633,512; and 633,893. The answer is 633,512, what's the question?

MATH on the ▶ Spot

   _____

   _____

Grand Canyon National Park Tent Campers	
Month (2018)	**Estimated Number of Campers**
June	🏕️ 🏕️
July	🏕️ 🏕️ 🏕️
August	🏕️ 🏕️ 🏕️
September	🏕️ 🏕️

Key: Each 🏕️ = 5,000.

22. Mordechai's school set a goal of collecting 12,155 cans of food each day. In the first 3 days, the school collected 12,250 cans; 10,505 cans; and 12,434 cans. Write each number in the box that tells whether or not the school met its goal.
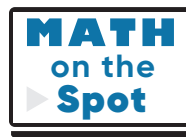
   | 12,250 | | 10,505 | | 12,434 |

Met the daily goal	Did not meet the daily goal

Compare and Order Numbers

Compare. Write <, >, or =. Use a number line, if needed.

1. 3,273 $\bigcirc<$ 3,279

2. $1,323 $\bigcirc$ $1,400

3. 52,692 $\bigcirc$ 52,692

4. $413,005 $\bigcirc$ $62,910

5. 382,144 $\bigcirc$ 382,144

6. 157,932 $\bigcirc$ 200,013

7. 401,322 $\bigcirc$ 410,322

8. 989,063 $\bigcirc$ 980,639

9. 258,766 $\bigcirc$ 258,596

Order from least to greatest. Use a number line, if needed.

10. 23,710; 23,751; 23,715

11. 52,701; 54,025; 5,206

_____

_____

12. 465,321; 456,321; 456,231

13. $330,820; $329,854; $303,962

_____

_____

14. An online newspaper had 350,080 visitors in October, 350,489 visitors in November, and 305,939 visitors in December. What is the order of the months from greatest to least number of visitors?

15. The total land area in square miles of each of three states is shown below.
Colorado: 103,718
New Mexico: 121,356
Arizona: 113,635
What is the order of the states from least to greatest total land area?

_____

_____

16. **WRITE** ▸*Math* Suppose the leftmost digits of two numbers are 8 and 3. Can you tell which number is greater? Explain.

_____

_____

_____

Lesson Check

17. At the yearly fund-raising drive, the nonprofit company's goal was to raise $55,500 each day. After three days, it had raised $55,053; $56,482; and $55,593. Which amount was less than the daily goal?

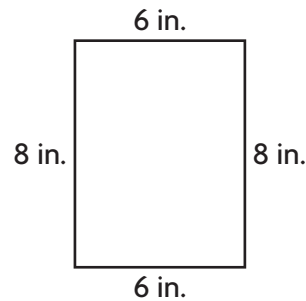**18.** Plot these numbers on a number line. Then, list these numbers in order from greatest to least: 90,048; 93,405; 90,543

90,000   94,000
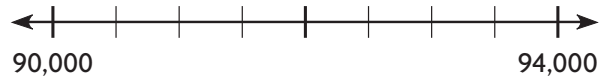
Spiral Review

19. Write a fraction that is less than $\frac{5}{6}$ and has a denominator of 8.

20. What is the perimeter in inches of the rectangle below?

6 in.

8 in.   8 in.

6 in.

21. A website had 826,140 hits last month. What is the value of the 8 in 826,140?

22. Write 680,705 in expanded form.