

## Compare and Order Whole Numbers Through 100,000

**3.2(D)** Compare and order whole numbers up to 100,000 and represent comparisons using the symbols  $>$ ,  $<$ , or  $=$ .

### Understand the TEKS

You can use **place value** to **compare** and **order** whole numbers.

When you compare numbers, you find out if one number is greater than another number. When you order numbers, you list 3 or more numbers from least to greatest or from greatest to least.

When you compare and order numbers, you use words or symbols such as **greater than ( $>$ )**, **less than ( $<$ )**, or **equal to ( $=$ )**.



### Did You Know?

**STRATEGY** When you order numbers, you begin by comparing the numbers. Use place value and compare the digits from left to right.

Last year, animals in a zoo ate 578 pounds of meat, 592 pounds of fruit, and 459 pounds of vegetables. What are the types of food eaten in order from least to greatest weight?

**To order numbers, use place value to compare the digits from left to right.**

**Step 1** Compare the digits in the greatest place value. The greatest place value is hundreds. Compare the hundreds.

There are \_\_\_\_\_ hundreds in 578.

There are \_\_\_\_\_ hundreds in 592.

There are \_\_\_\_\_ hundreds in 459.

5 hundreds  $>$  4 hundreds, so 459 is the least number.

**Step 2** When the digits in the greatest place value are the same, compare the digits in the next place to the right.

Which is greater: 578 or 592? Remember, compare the tens.

7 tens  $<$  9 tens, so \_\_\_\_\_ is the greatest number.

**Step 3** Write the numbers 578, 592, and 459 in order from least to greatest.

\_\_\_\_\_  $<$  \_\_\_\_\_  $<$  \_\_\_\_\_

What are the types of food eaten in order from least to greatest weight?

\_\_\_\_\_



★ Practice

**DIRECTIONS** Read and answer each question carefully.

1 Brendan wrote the following:

$$8,425 < 8,369$$

Is he correct?

- Ⓐ Yes, because 5 ones is less than 9 ones
- Ⓑ Yes, because 2 tens is less than 6 tens
- Ⓒ No, because 8 thousands is equal to 8 thousands
- Ⓓ No, because 4 hundreds is greater than 3 hundreds

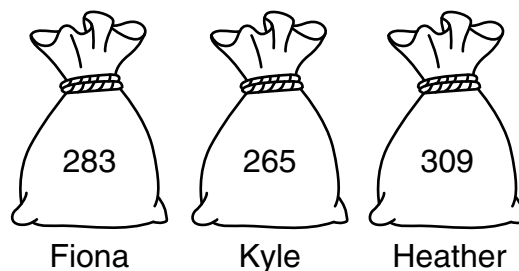
2 The table shows the number of people living in four different towns.

Town	Number of People
Somerset	76,934
Delta	78,622
Brighton	78,496
Waterville	77,218

Which statement is true?

- Ⓐ Fewer people live in Delta than Somerset because  $78,622 < 76,934$ .
- Ⓑ More people live in Waterville than Somerset because  $77,218 > 76,934$ .
- Ⓒ Fewer people live in Delta than Waterville because  $78,622 < 77,218$ .
- Ⓓ The same number of people live in Delta and Brighton because  $78,622 = 78,496$ .

3 Fiona, Kyle, and Heather each have a bag of pennies.



Which statement is true?

- Ⓐ Fiona and Kyle have the same number of pennies because  $283 = 265$ .
- Ⓑ Heather has fewer pennies than Fiona because  $309 < 283$ .
- Ⓒ Kyle has more pennies than Heather because  $265 > 309$ .
- Ⓓ Fiona has more pennies than Kyle because  $283 > 265$ .

4 Help Will put the numbers in order from greatest to least.

24,518	21,983	23,045	22,756

Write each number in the correct box.

>

>

>

**Greatest** → **Least**

- 5 A frozen yogurt shop owner records the number of yogurts she sells in a month.

**Number of Yogurts Sold**

Flavor	Number Sold
Vanilla	3,890
Strawberry	3,602
Chocolate	4,006
Mint	3,499

Which list shows the number of yogurts sold from least to greatest?

- (A) Chocolate < Vanilla < Strawberry < Mint
- (B) Mint < Strawberry < Vanilla < Chocolate
- (C) Mint < Chocolate < Strawberry < Vanilla
- (D) Vanilla < Strawberry < Mint < Chocolate

- 6 Julia is thinking of a number greater than 5,879 and less than 5,940.

Which number could Julia be thinking of and why?

- (A) 5,799 because  $5,799 > 5,879 > 5,940$
- (B) 5,799 because  $5,799 < 5,940 < 5,879$
- (C) 5,915 because  $5,915 < 5,879 < 5,940$
- (D) 5,915 because  $5,879 < 5,915 < 5,940$

- 7 The following statement shows how many pages are in Andy’s book.

$$356 < \text{number of pages} < 413$$

How many pages long could Andy’s book be?

- (A) 349
- (B) 356
- (C) 410
- (D) 425

- 8 The table shows the number of different kinds of books sold at a book fair.

**Books Sold at Book Fair**

Type of Book	Number Sold
Adventure	138
Comic	161
Non-Fiction	132
Science Fiction	180
Mystery	147

Which is the least number of book type sold?

Write your answer in the box.