

## Compare Whole Numbers

Name: \_\_\_\_\_

**Prerequisite:** Compare Three-Digit Numbers

Study the example that shows how to compare two three-digit numbers. Then solve problems 1–7.

**Example**

To compare numbers with the same number of digits, compare place by place. Start with the greatest place value.

Compare 790 and 728.

First, compare hundreds.

7 hundreds = 7 hundreds

Hundreds	Tens	Ones
7	9	0
7	2	8

Next, compare tens

9 tens > 2 tens

So,  $790 > 728$ .

- 1** Write the numbers 465 and 483 in the place-value chart.

Hundreds	Tens	Ones

- 2** Complete the sentences to explain how to find which number is less, 465 or 483.

First, compare digits in the \_\_\_\_\_ place.

Next, compare the \_\_\_\_\_ place, because both digits in the \_\_\_\_\_ place are the same.

\_\_\_\_\_ tens is less than \_\_\_\_\_ tens, so

\_\_\_\_\_ is less than \_\_\_\_\_.

- 3** Write the symbol ( $>$ ,  $<$ ,  $=$ ) to compare 465 and 483.

465  483

**Vocabulary**

**greater than** a comparison that says one number has greater value than another number.

$9 > 2$

**less than** a comparison that says one number has less value than another number.

$2 < 9$

## Solve.

- 4 Write the symbol ( $>$ ,  $<$ ,  $=$ ) that makes each statement true.

$73 \square 95$

$184 \square 148$

$905 \square 950$

- 5 Danny says  $4 < 6$ , so  $204 < 216$ . Is his reasoning correct? Explain.

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- 6 Use numbers and words to explain why a two-digit number is always less than a three-digit number.

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- 7 Write a digit (0–9) in the boxes below to make each comparison true.

$4\square 2 < 4\square 2$

$\square 30 > \square 60$

$60\square = \square 05$

$9\square < \square 81$

$\square 60 > \square 50$

## Compare Multi-Digit Numbers

**Study the example that shows how to compare multi-digit numbers. Then solve problems 1–6.**

### Example

Cara piloted two flights. On her first flight, she flew the airplane 30,825 feet high. On her second flight, she flew 30,750 feet high. Compare how high Cara flew on her two flights.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	3	0	8	2	5
	3	0	7	5	0

The ten thousands and thousands digits are the same.

The hundreds digits are different.

8 hundreds  $>$  7 hundreds

30,825  $>$  30,750

- 1** In 2013, 50,266 runners finished the New York City Marathon and 38,879 runners finished the Chicago Marathon. Compare these numbers by lining up the place value. Explain which number is greater.

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- 2** Two numbers are shown in expanded form. Explain and show how to compare these numbers.

$$60,000 + 2,000 + 500 + 80 + 3$$

$$60,000 + 7,000 + 200 + 40 + 5$$

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## Solve.

**3** Circle all the numbers that are greater than 98,765.

- a. 100,100
- b. 89,975
- c. 99,132
- d. 987,650

**4** Walnut Elementary raised \$1,950 for new technology in their school. Grove Elementary raised \$1,890. Which school raised more money? Explain how you know.

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**5** Write the symbol ( $>$ ,  $<$ ,  $=$ ) that makes the statement true.

- 8,035 ☐ 894
- 62,999 ☐ 63,000
- 142,073 ☐ 143,750
- 501,348 ☐ 500,348

**6** Tell whether each number sentence is *True* or *False*.

- a.  $33,003 = 33,030$  ☐ True ☐ False
- b.  $524,980 > 52,498$  ☐ True ☐ False
- c.  $270,615 < 270,569$  ☐ True ☐ False
- d.  $100,000 < 99,999$  ☐ True ☐ False

**Compare Whole Numbers****Solve the problems.**

- 1** Ethan read 901 pages this month. Henry read 1,002 pages. Maria read 1,020 pages. Kylie read 1,012 pages. Who read the least number of pages?

**A** Ethan                      **C** Maria  
**B** Henry                     **D** Kylie

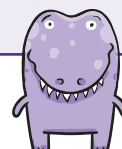
What place-value position do you need to compare?



- 2** A photographer has picture files saved in three online albums. The Wedding album has 2,073 files. The Birthday album has 1,860 files. The Pets album has 2,370 files. Which album has the most files?

**Show your work.**

You might want to use a place-value chart to compare these numbers.



**Solution:** \_\_\_\_\_

- 3** Which of these is equal to 25,973?

**A** 25 thousands, 973 hundreds  
**B** 259 hundreds, 7 tens, 3 ones  
**C** 25 hundreds, 97 tens, 3 ones  
**D** 25 ten thousands, 9 hundreds, 7 tens, 3 ones

How could you write this number with only hundreds, tens, and ones?



## Solve.

- 4 Circle the statement below that correctly compares 1,530 and 12,530.

- A 1,530 > 12,530 because  
5 thousands > 2 thousands.
- B 1,530 = 12,530 because  
5 hundreds = 5 hundreds.
- C 1,530 < 12,530 because 1 < 2.
- D 1,530 < 12,530 because  
1 thousand < 12 thousands

Hannah wrote the numbers one above the other to compare them. She chose **A** as the correct answer. How did she get that answer?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

If you compare numbers by writing one above the other, how do you know that the numbers are lined up correctly?

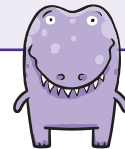


- 5 Use the digits in the number 531,642 to write a number that is greater than and a number that is less than 531,642.

□□□, □□□ > 531,642

531,642 > □□□, □□□

What could be the first step in solving this problem?



- 6 Use each of the digits 1–9 exactly once. Write a number in each box to create the greatest and least possible number.

Greatest Number □□, □□□

Least Number □, □□□

What digit should you write in the greatest place value?

