

# Comparing and Ordering Multi-Digit Numbers

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

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 24

## Q Quick Review

To **compare** two numbers, line them up by place value and check the digits from **left to right**. The first place where the digits are different decides which number is bigger. We use  $>$  for *greater than*,  $<$  for *less than*, and  $=$  for *equal to*. A helpful trick: the open side of the symbol always faces the bigger number. To **order** a list of numbers, compare them two at a time.

**Ascending** order goes from least to greatest; **descending** order goes from greatest to least.

◇ **Example:** Compare 42,618 and 42,591 using  $<$ ,  $>$ , or  $=$ .

⇒ Line the numbers up and check place by place, starting at the left. The ten thousands digits are both 4 — a tie. The thousands digits are both 2 — still tied. Now the hundreds: 42,618 has a 6 and 42,591 has a 5. Since 6 is greater than 5, the first number is greater. So  $42,618 > 42,591$ .

**Answer:**  $42,618 > 42,591$

## PRACTICE

Compare using  $<$ ,  $>$ , or  $=$ , or order the numbers as asked.

- |                               |       |                                                             |       |
|-------------------------------|-------|-------------------------------------------------------------|-------|
| 1. $364 \square 367$          | _____ | 14. $71,205 \square 71,250$                                 | _____ |
| 2. $1,205 \square 1,250$      | _____ | 15. Order from least to greatest: 4,120, 4,210, 4,102       | _____ |
| 3. $8,900 \square 8,900$      | _____ | 16. Order from least to greatest: 36,500, 35,600, 36,050    | _____ |
| 4. $5,482 \square 5,428$      | _____ | 17. Order from greatest to least: 8,007, 8,070, 8,700       | _____ |
| 5. $12,600 \square 9,999$     | _____ | 18. Order from greatest to least: 52,910, 52,091, 52,190    | _____ |
| 6. $34,170 \square 34,170$    | _____ | 19. Order from least to greatest: 120,400, 102,400, 124,000 | _____ |
| 7. $60,305 \square 60,350$    | _____ | 20. Order from greatest to least: 9,990, 99,000, 9,009      | _____ |
| 8. $27,811 \square 27,809$    | _____ |                                                             |       |
| 9. $45,000 \square 54,000$    | _____ |                                                             |       |
| 10. $103,492 \square 103,429$ | _____ |                                                             |       |
| 11. $250,000 \square 205,000$ | _____ |                                                             |       |
| 12. $99,999 \square 100,000$  | _____ |                                                             |       |
| 13. $418,760 \square 418,760$ | _____ |                                                             |       |

## ◆ Word Problems

21. In a video game, Jordan scored 24,815 points and Sam scored 24,851 points. Who scored more, and which comparison symbol shows it? \_\_\_\_\_
22. Three towns have populations of 18,340, 18,043, and 18,430. List the towns' populations from least to greatest. \_\_\_\_\_
23. A library has 7,206 fiction books and 7,260 nonfiction books. Does the library have more fiction or nonfiction books? \_\_\_\_\_
24. Four friends collected cans: 1,204, 1,042, 1,420, and 1,240. Order the amounts from greatest to least. \_\_\_\_\_



## Answer Keys

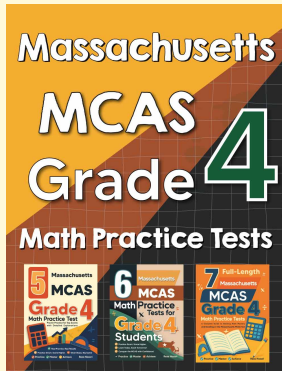
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. <input type="radio"/> &lt;</p> <p>2. <input type="radio"/> &lt;</p> <p>3. <input type="radio"/> =</p> <p>4. <input type="radio"/> &gt;</p> <p>5. <input type="radio"/> &gt;</p> <p>6. <input type="radio"/> =</p> <p>7. <input type="radio"/> &lt;</p> <p>8. <input type="radio"/> &gt;</p> <p>9. <input type="radio"/> &lt;</p> <p>10. <input type="radio"/> &gt;</p> <p>11. <input type="radio"/> &gt;</p> <p>12. <input type="radio"/> &lt;</p> | <p>13. <input type="radio"/> =</p> <p>14. <input type="radio"/> &lt;</p> <p>15. <input type="radio"/> 4,102, 4,120, 4,210</p> <p>16. <input type="radio"/> 35,600, 36,050, 36,500</p> <p>17. <input type="radio"/> 8,700, 8,070, 8,007</p> <p>18. <input type="radio"/> 52,910, 52,190, 52,091</p> <p>19. <input type="radio"/> 102,400, 120,400, 124,000</p> <p>20. <input type="radio"/> 99,000, 9,990, 9,009</p> <p>21. <input type="radio"/> Sam; 24,851 &gt; 24,815</p> <p>22. <input type="radio"/> 18,043, 18,340, 18,430</p> <p>23. <input type="radio"/> More nonfiction books</p> <p>24. <input type="radio"/> 1,420, 1,240, 1,204, 1,042</p> |
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### Step-by-Step Explanations

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| <p>1. The hundreds and tens match; in the ones place <math>4 &lt; 7</math>, so <math>364 &lt; 367</math>.</p> <p>2. The thousands and hundreds match; in the tens place <math>0 &lt; 5</math>, so <math>1,205 &lt; 1,250</math>.</p> <p>3. Every digit matches, so the numbers are equal.</p> <p>4. The first two digits match; in the tens place <math>8 &gt; 2</math>, so <math>5,482 &gt; 5,428</math>.</p> <p>5. 12,600 has 5 digits and 9,999 has 4, so 12,600 is greater.</p> <p>6. All digits are the same, so the numbers are equal.</p> <p>7. The first three digits match; in the tens place <math>0 &lt; 5</math>, so <math>60,305 &lt; 60,350</math>.</p> <p>8. They match through the hundreds; in the tens place <math>1 &gt; 0</math>, so <math>27,811 &gt; 27,809</math>.</p> <p>9. In the ten thousands place <math>4 &lt; 5</math>, so <math>45,000 &lt; 54,000</math>.</p> <p>10. They match through the hundreds; in the tens place <math>9 &gt; 2</math>, so <math>103,492 &gt; 103,429</math>.</p> <p>11. In the ten thousands place <math>5 &gt; 0</math>, so <math>250,000 &gt; 205,000</math>.</p> <p>12. 99,999 has 5 digits and 100,000 has 6, so <math>99,999 &lt; 100,000</math>.</p> <p>13. Every digit matches, so the numbers are equal.</p> | <p>14. They match through the hundreds; in the tens place <math>0 &lt; 5</math>, so <math>71,205 &lt; 71,250</math>.</p> <p>15. Compare the hundreds and tens: <math>4,102 &lt; 4,120 &lt; 4,210</math>.</p> <p>16. 35,600 is smallest; then <math>36,050 &lt; 36,500</math>.</p> <p>17. 8,700 is largest, then 8,070, then 8,007.</p> <p>18. Compare the hundreds: <math>9 &gt; 1 &gt; 0</math>, so <math>52,910 &gt; 52,190 &gt; 52,091</math>.</p> <p>19. Compare the ten thousands: <math>102,400 &lt; 120,400 &lt; 124,000</math>.</p> <p>20. 99,000 has 5 digits, so it is largest; then <math>9,990 &gt; 9,009</math>.</p> <p>21. The numbers match through the hundreds place. In the tens place, <math>5 &gt; 1</math>, so <math>24,851 &gt; 24,815</math>. Sam scored more.</p> <p>22. All start with 18. Compare the hundreds digit: <math>0 &lt; 3 &lt; 4</math>, so the order is 18,043, 18,340, 18,430.</p> <p>23. Both start with 7,2. In the tens place, <math>0 &lt; 6</math>, so <math>7,206 &lt; 7,260</math>. There are more nonfiction books.</p> <p>24. All start with 1. Compare the hundreds digit: <math>4 &gt; 2 &gt; 2 &gt; 0</math>, and for the two 2s compare the tens: <math>1,240 &gt; 1,204</math>. So 1,420, 1,240, 1,204, 1,042.</p> |
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