Comparing and Ordering Multi-Digit Numbers

Name: _____	Date: _____	Score: _____ / 24

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

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

1. $<$
2. $<$
3. $=$
4. $>$
5. $>$
6. $=$
7. $<$
8. $>$
9. $<$
10. $>$
11. $>$
12. $<$
13. $=$
14. $<$
15. $4{,}102,\ 4{,}120,\ 4{,}210$
16. $35{,}600,\ 36{,}050,\ 36{,}500$
17. $8{,}700,\ 8{,}070,\ 8{,}007$
18. $52{,}910,\ 52{,}190,\ 52{,}091$
19. $102{,}400,\ 120{,}400,\ 124{,}000$
20. $99{,}000,\ 9{,}990,\ 9{,}009$
21. Sam; $24{,}851 > 24{,}815$
22. $18{,}043,\ 18{,}340,\ 18{,}430$
23. More nonfiction books
24. $1{,}420,\ 1{,}240,\ 1{,}204,\ 1{,}042$

Step-by-Step Explanations

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

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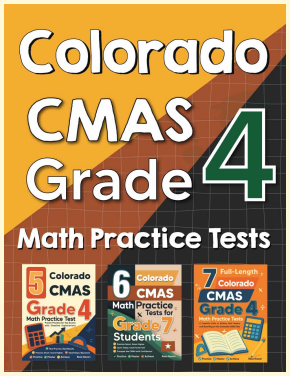

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