

Comparing and Ordering Whole Numbers

To compare two numbers, line up their place values and look at the leftmost digit that is different. That tells you which one is bigger.

Symbol	Reads as	Example
<	“less than”	234 < 432
>	“greater than”	580 > 508
=	“equal to”	700 = 700



Key Concepts

- To compare two whole numbers, line them up by place value (ones under ones, tens under tens, and so on).
- Start at the *left* (the biggest place). Compare digit by digit until you find the first place where they differ.
- The number with the bigger digit in that place is the greater number. If every digit matches, the numbers are equal.
- The symbols open toward the bigger number: < opens to the right (smaller on the left), > opens to the left (bigger on the left). A handy way to remember: think of the symbol as a hungry mouth that always points at the larger number.

Worked Examples

① Compare 462 and 472 using <, >, or =.

👉 Line them up by place value: hundreds are 4 and 4 (a tie), so move on. Tens are 6 and 7 — different! 7 is bigger than 6, so 472 is the larger number. Once you know which one is bigger, the symbol is easy: the opening points at the bigger number, so $462 < 472$.

💡 **Answer:** $462 < 472$

② Order from least to greatest: 809, 890, 798.

👉 Compare the hundreds first. 809 and 890 both have 8 hundreds, but 798 only has 7 hundreds, so 798 is the smallest. Now compare 809 and 890 at the next place: tens are 0 and 9. Nine is bigger, so 890 is the largest. Order from smallest to largest: 798, then 809, then 890.

💡 **Answer:** $798 < 809 < 890$

③ Use <, >, or =: 3,054 ___ 3,540.

👉 The thousands place is 3 in both, so that is a tie. Move to the hundreds: 0 in the first number and 5 in the second. Since 5 is bigger, 3,540 is the larger number. Point the symbol's opening at 3,540.

💡 **Answer:** $3,054 < 3,540$

 **Practice Problems**

Compare using $<$, $>$, or $=$, or order from least to greatest.

- | | | | |
|--------------------------|-------|--------------------------------|-------|
| 1. $356 \square 365$ | _____ | 7. $2,300 \square 2,030$ | _____ |
| 2. $812 \square 812$ | _____ | 8. $8,007 \square 8,070$ | _____ |
| 3. $1,204 \square 1,042$ | _____ | 9. Order: 7,012, 7,102, 7,021 | _____ |
| 4. $6,789 \square 6,798$ | _____ | 10. Order: 3,999, 4,000, 3,909 | _____ |
| 5. Order: 432, 423, 342 | _____ | 11. $500 \square 499$ | _____ |
| 6. Order: 905, 950, 590 | _____ | 12. $1,100 \square 1,010$ | _____ |

Study Tips

-  Always start at the *biggest* place (the leftmost digit). Comparing from the right is a common mistake that leads to wrong answers.
-  Use the “mouth” trick: the symbol $<$ or $>$ opens toward the bigger number. It is the hungry mouth eating the larger meal.
-  Stack the numbers vertically when in doubt — when the place values line up neatly, the comparison becomes obvious.

 **Word Problems**

1. Maya’s school has 1,245 students and the school across town has 1,254 students. Which school has more students?

Answer: _____

2. Order these heights from shortest to tallest: 1,305 ft, 1,530 ft, 1,350 ft.

Answer: _____

Answer Key — with Friendly Explanations**Practice Problems**

1. Hundreds match at 3, tens are 5 vs 6 — 6 wins, so $356 < 365$.
💡 **Answer:** $<$
2. All three digits match: 8, 1, 2 in both numbers. They are equal.
💡 **Answer:** $=$
3. Thousands tie at 1, but hundreds are 2 vs 0. Since $2 > 0$, 1,204 is bigger.
💡 **Answer:** $>$
4. Thousands and hundreds tie. Compare tens: 8 vs 9. 9 wins, so $6,789 < 6,798$.
💡 **Answer:** $<$
5. Hundreds: all 3 or 4. 342 has 3 hundreds (smallest). Of 432 and 423, the tens are 3 vs 2, so 423 comes before 432.
💡 **Answer:** $342 < 423 < 432$
6. Hundreds: 9, 9, 5. So 590 is smallest. Of 905 and 950, the tens are 0 vs 5, so $905 < 950$.
💡 **Answer:** $590 < 905 < 950$
7. Thousands tie at 2, hundreds are 3 vs 0. Since $3 > 0$, $2,300 > 2,030$.
💡 **Answer:** $>$
8. Thousands and hundreds tie at 8, 0. Compare tens: 0 vs 7. 7 wins, so $8,007 < 8,070$.
💡 **Answer:** $<$
9. All three start with 7 in thousands and 0 or 1 in hundreds. 7,012 has 0 hundreds (smallest). 7,021 and 7,102 differ in hundreds (0 vs 1), so $7,021 < 7,102$.
💡 **Answer:** $7,012 < 7,021 < 7,102$
10. 3,999 and 3,909 have 3 thousands; 4,000 has 4 (the largest). Between 3,999 and 3,909, hundreds tie at 9, tens are 9 vs 0, so $3,909 < 3,999$.
💡 **Answer:** $3,909 < 3,999 < 4,000$
11. Hundreds: 5 vs 4. Since $5 > 4$, $500 > 499$.
💡 **Answer:** $>$
12. Thousands tie at 1, hundreds are 1 vs 0. Since $1 > 0$, 1,100 is bigger.
💡 **Answer:** $>$

Word Problems

1. Match thousands (1) and hundreds (2), then compare tens: 4 vs 5. The school with 1,254 has more students.
💡 **Answer:** *the school with 1,254 students*
2. All three share 1,3 in thousands and hundreds. The difference is in the tens place: 0, 5, 3. Shortest to tallest: 1,305, 1,350, 1,530.
💡 **Answer:** $1,305 < 1,350 < 1,530$

Want a Complete Grade 3 Math Program?

Check Out Our Pennsylvania PSSA Grade 3 Math Bundle!



Pennsylvania PSSA Grade 3 Math Bundle

Practice tests, complete answer keys, and step-by-step explanations
Everything a third grader needs to feel ready!

Tests +
Answer Keys
One Bundle

Find it online:

<https://www.effortlessmath.com/product/pennsylvania-pssa-grade-3-math-made-ridiculously-simple/>

Important: This bundle combines the practice and the explanations into one easy-to-print package designed for Grade 3 students. **Made for parents, teachers, and tutors who want everything in one place.**

Full Practice Tests

- ✓ Complete PSSA-style practice tests
- ✓ Mirrors the real exam format and difficulty
- ✓ Builds test-taking confidence
- ✓ Aligned with state Grade 3 math standards

Start with a full-length practice test!

Step-by-Step Answer Keys

- ✓ Every question worked out, not just an answer
- ✓ Friendly, third-grade-ready explanations
- ✓ Catches and explains common misconceptions
- ✓ Parents can help even without a math background

Learn from every mistake!

Single-Skill Worksheets

- ✓ Targets one Grade 3 math skill per page
- ✓ Covers place value, multiplication, fractions, measurement, geometry
- ✓ Includes a Quick Review + Practice + Word Problems
- ✓ Built-in friendly Answer Key for self-checking

Master one skill at a time!