

Decimal Showdown

Compare decimals through the thousandths place.

GRADE 5 • 5.NBT.A.3b

CCSS.Math.Content.5.NBT.A.3b "Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons."

NAME _____

DATE _____

COMPARE PLACE VALUES

Compare the whole-number parts first. If they are equal, compare tenths, then hundredths, then thousandths. The first place that has different digits tells which decimal is greater.

WORKED EXAMPLE

Compare 6.427 and 6.412.

1. The whole numbers are both 6.
2. The tenths are both 4.
3. Compare the hundredths: 2 is greater than 1.
4. So 6.427 is greater than 6.412.

Answer: $6.427 > 6.412$

PRACTICE 6 problems

1 0.586 ____ 0.568

ANSWER _____

2 3.090 ____ 3.09

ANSWER _____

3 7.304 ____ 7.340

ANSWER _____

4 12.999 ____ 13.000

ANSWER _____

5 4.671 ____ 4.670

ANSWER _____

6 8.205 ____ 8.250

ANSWER _____

APPLY IT Show your work

- 1** At a robotics contest, Robot A carried 4.708 kilograms. Robot B carried 4.780 kilograms. Which robot carried the heavier load? Record the comparison using a symbol.

WORK SPACE

ANSWER _____

- 2** Two friends tracked their reading times. Jada read for 2.356 hours, and Luis read for 2.365 hours. Who read longer? Record the comparison using a symbol.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Compare 5.408 and 5.48. Write the correct symbol, then explain why the decimals are not equal.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	0.586 ____ 0.568	0.586 > 0.568
2	3.090 ____ 3.09	3.090 = 3.09
3	7.304 ____ 7.340	7.304 < 7.340
4	12.999 ____ 13.000	12.999 < 13.000
5	4.671 ____ 4.670	4.671 > 4.670
6	8.205 ____ 8.250	8.205 < 8.250

PART 2 • APPLY IT

1. **4.708 < 4.780, so Robot B carried the heavier load.** The ones and tenths are equal. Compare the hundredths: 0 is less than 8, so 4.780 is greater.
2. **2.356 < 2.365, so Luis read longer.** The ones and tenths are equal. Compare the hundredths: 5 is less than 6, so Luis's time is greater.

CHALLENGE

5.408 < 5.48. Since 5.48 = 5.480, compare the hundredths: 0 is less than 8.

Accept correct comparison symbols and equivalent decimal forms made by adding zeros at the end, such as $3.09 = 3.090$. For the challenge, accept explanations that show 5.48 as 5.480 and compare place values correctly.