

Decimal Detectives

Compare and order decimals through thousandths.

GRADE 5 • TEKS 5.2.B

5.2.B "compare and order two decimals to thousandths and represent comparisons using the symbols $>$, $<$, or $=$; and"

NAME _____

DATE _____

LINE UP THE DIGITS

Write decimals so their decimal points line up. Add zeros to the right when needed, then compare digits from left to right. The first place with different digits tells which decimal is greater.

WORKED EXAMPLE

Compare 4.307 and 4.37. Write $>$, $<$, or $=$.

1. Line up the decimal points: 4.307 and 4.370.
2. Compare the tenths digits, 3 and 3.
3. Compare the hundredths digits, 0 and 7.
4. Since 0 is less than 7, 4.307 is less than 4.370.

Answer: $4.307 < 4.37$

PRACTICE 6 problems

1 Write $>$, $<$, or $=$. 6.482 ____ 6.428

ANSWER _____

2 Write $>$, $<$, or $=$. 0.905 ____ 0.950

ANSWER _____

3 Write $>$, $<$, or $=$. 12.600 ____ 12.6

ANSWER _____

4 Order these decimals from least to greatest:
3.019, 3.19, 3.109

ANSWER _____

5 Write $>$, $<$, or $=$. 7.777 ____ 7.778

ANSWER _____

6 Order these decimals from greatest to least:
0.408, 0.48, 0.048

ANSWER _____

APPLY IT Show your work

- 1** In a racing game, Jada finished a track in 15.236 minutes. Malik finished in 15.263 minutes. Who had the faster time? Write a comparison using $<$, $>$, or $=$.

WORK SPACE

ANSWER _____

- 2** Two students measured their scooter rides. Priya rode 2.875 kilometers, and Owen rode 2.857 kilometers. Who rode farther? Write a comparison using $<$, $>$, or $=$.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Order these decimals from least to greatest: 9.091, 9.19, 9.109, 9.9. Then explain how adding zeros helped you compare them.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $>$, $<$, or $=$. 6.482 ____ 6.428	6.482 > 6.428
2	Write $>$, $<$, or $=$. 0.905 ____ 0.950	0.905 < 0.950
3	Write $>$, $<$, or $=$. 12.600 ____ 12.6	12.600 = 12.6
4	Order these decimals from least to greatest: 3.019, 3.19, 3.109	3.019, 3.109, 3.19
5	Write $>$, $<$, or $=$. 7.777 ____ 7.778	7.777 < 7.778
6	Order these decimals from greatest to least: 0.408, 0.48, 0.048	0.48, 0.408, 0.048

PART 2 • APPLY IT

1. **Jada had the faster time. $15.236 < 15.263$.** For times, the smaller decimal is faster. Compare the hundredths digits, 3 is less than 6.
2. **Priya rode farther. $2.875 > 2.857$.** The ones and tenths digits match. Compare the hundredths digits, 7 is greater than 5.

CHALLENGE

9.091, 9.109, 9.19, 9.9. Adding zeros gives 9.091, 9.109, 9.190, and 9.900, so each decimal has three digits after the decimal point.

Accept equivalent comparison statements with zeros added to the right, such as $12.6 = 12.600$. For ordered lists, accept decimals written with added trailing zeros if the order is correct.