LESSON MAKER PRO

Decimal Detectives

Compare and order numbers by place value.

GRADE 4 · 4.N.3.8

4.N.3.8 "Compare and order decimals and whole numbers using place value and various models including but not limited to grids, number lines, and base 10 blocks."

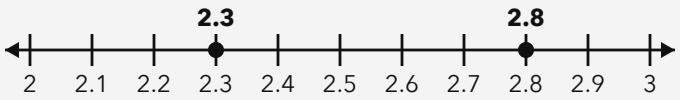
NAME _____ DATE _____

COMPARE PLACE VALUES

Compare the ones first, then the tenths, then the hundredths. Adding a zero to the end of a decimal does not change its value.

WORKED EXAMPLE

Compare 2.3 and 2.8 using the number line.



1. Both numbers have 2 ones.
2. 2.3 is left of 2.8 on the number line.
3. A number farther left is less.

Answer: 2.3 < 2.8

PRACTICE 4 problems

1 Write <, >, or =: 3.06 ___ 3.6

ANSWER _____

2 Write <, >, or =: 5.42 ___ 5.24

ANSWER _____

3 Order from least to greatest: 0.09, 0.9, 1.09

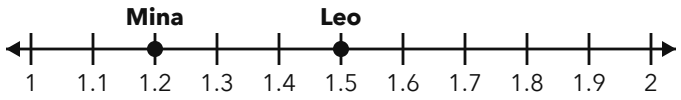
ANSWER _____

4 Write <, >, or =: 7 ___ 6.99

ANSWER _____

APPLY IT Show your work

1 Mina and Leo mark their long jumps on the number line. The distances are in meters. Who jumped farther?



ANSWER _____

2 Robot race times are 8.07, 8.7, and 8.17 seconds. Order the times from least to greatest.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Order 6.4, 6.39, 6.04, and 6.40 from least to greatest. Explain the tie.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Detectives

GRADE 4 · 4.N.3.8

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =: 3.06 ___ 3.6	**<**
2	Write <, >, or =: 5.42 ___ 5.24	**>**
3	Order from least to greatest: 0.09, 0.9, 1.09	**0.09, 0.9, 1.09**
4	Write <, >, or =: 7 ___ 6.99	**>**

PART 2 · APPLY IT

1. **Leo** Leo's mark is farther right. His jump was 1.5 meters, and Mina's was 1.2 meters.
2. **8.07, 8.17, 8.7 seconds** Compare the tenths, then the hundredths. Both 8.07 and 8.17 are less than 8.7.

CHALLENGE

6.04 < 6.39 < 6.4 = 6.40. The tie occurs because a zero at the end does not change 6.4.

Accept either order for the equal numbers in the challenge if the student clearly marks them as equal.