LESSON MAKER PRO

Decimal Detective

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 BY PLACE

Line up the decimal points. Compare digits from left to right, stopping at the first place where the digits are different. You may write zeros at the end of a decimal without changing its value.

WORKED EXAMPLE

Compare 4.307 and 4.370. Write >, =, or <.

1. The ones digits are equal: 4 = 4.
2. The tenths digits are equal: 3 = 3.
3. Compare the hundredths digits: 0 < 7.
4. So the first number is less than the second number.

Answer: 4.307 < 4.370

PRACTICE 6 problems

1 Compare 0.648 and 0.651. Write >, =, or <.

ANSWER _____

2 Compare 7.205 and 7.205. Write >, =, or <.

ANSWER _____

3 Compare 3.090 and 3.09. Write >, =, or <.

ANSWER _____

4 Compare 12.999 and 13.000. Write >, =, or <.

ANSWER _____

5 Compare 5.476 and 5.467. Write >, =, or <.

ANSWER _____

6 Compare 8.032 and 8.320. Write the comparison. Then name the first place where the digits are different.

ANSWER _____

APPLY IT Show your work

1 The table shows distances two runners traveled during a school running club. Which runner traveled farther? Write a comparison using the two distances.

RUNNING CLUB DISTANCES

Runner	Distance (miles)
Maya	2.458
Theo	2.485

WORK SPACE

ANSWER _____

2 In a racing video game, Jalen finished a lap in 3.716 seconds. Priya finished a lap in 3.761 seconds. Who had the faster lap? Write a comparison using the lap times.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Ava says that 6.408 > 6.48 because 408 is greater than 48. Is Ava correct? Write the correct comparison and explain why.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Detective

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Compare 0.648 and 0.651. Write >, =, or <.	**0.648 < 0.651**
2	Compare 7.205 and 7.205. Write >, =, or <.	**7.205 = 7.205**
3	Compare 3.090 and 3.09. Write >, =, or <.	**3.090 = 3.09**
4	Compare 12.999 and 13.000. Write >, =, or <.	**12.999 < 13.000**
5	Compare 5.476 and 5.467. Write >, =, or <.	**5.476 > 5.467**
6	Compare 8.032 and 8.320. Write the comparison. Then name the first place where the digits are different.	**8.032 < 8.320; the tenths place.**

PART 2 · APPLY IT

1. **2.458 < 2.485, so Theo traveled farther.** The ones and tenths digits match. In the hundredths place, 5 is less than 8.
2. **3.716 < 3.761, so Jalen had the faster lap.** A shorter time is faster. The tenths digits match, and 1 is less than 6 in the hundredths place.

CHALLENGE

No. 6.408 < 6.48 because 6.48 = 6.480, and 408 thousandths is less than 480 thousandths.

Accept equivalent decimal forms with zeros added at the end, such as 3.09 = 3.090. For the challenge, accept any explanation that correctly compares 6.408 and 6.480 by place value.