LESSON MAKER PRO

# Decimal Detective

*Compare decimals through the hundredths place.*

**GRADE 4 · 4.NR.5.3**

**4.NR.5.3** "Compare two decimal numbers to the hundredths place by reasoning about their size. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions."

NAME _____ DATE _____

## COMPARE PLACE BY PLACE

Line up the decimal points and compare the whole numbers first. If they are equal, compare the tenths, then compare the hundredths. You can write a zero in an empty hundredths place, such as 4.5 = 4.50.

**WORKED EXAMPLE**

Compare 6.37 and 6.4. Write >, =, or <.

1. Write 6.4 as 6.40.
2. The whole numbers are both 6.
3. Compare the tenths: 3 is less than 4.

**Answer: 6.37 < 6.40**

## PRACTICE 6 problems

**1** Compare 2.45 and 2.54. Write >, =, or <.

**ANSWER** _____

**2** Compare 7.09 and 7.09. Write >, =, or <.

**ANSWER** _____

**3** Compare 0.68 and 0.7. Write >, =, or <.

**ANSWER** _____

**4** Compare 9.31 and 8.99. Write >, =, or <.

**ANSWER** _____

**5** Compare 4.06 and 4.6. Write >, =, or <. Then explain which place helped you decide.

**ANSWER** _____

**6** Compare 12.25 and 12.52. Write >, =, or <. Then explain which place helped you decide.

**ANSWER** _____

## APPLY IT Show your work

**1** At the skateboard park, Leo rode 1.75 kilometers. Priya rode 1.57 kilometers. Compare the distances using >, =, or <. Who rode farther?

WORK SPACE

**ANSWER** _____

**2** In a video game, Ava earned 3.28 coins in one round. Malik earned 3.82 coins in one round. Compare their amounts using >, =, or <. Who earned more?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Jana says, "3.5 is less than 3.49 because 49 is greater than 5." Is Jana correct? Write the correct comparison and explain your reasoning.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Decimal Detective

**GRADE 4 · 4.NR.5.3**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Compare 2.45 and 2.54. Write >, =, or <. | **2.45 < 2.54** |
| 2 | Compare 7.09 and 7.09. Write >, =, or <. | **7.09 = 7.09** |
| 3 | Compare 0.68 and 0.7. Write >, =, or <. | **0.68 < 0.70** |
| 4 | Compare 9.31 and 8.99. Write >, =, or <. | **9.31 > 8.99** |
| 5 | Compare 4.06 and 4.6. Write >, =, or <. Then explain which place helped you decide. | **4.06 < 4.60; The tenths are 0 and 6, and 0 is less than 6.** |
| 6 | Compare 12.25 and 12.52. Write >, =, or <. Then explain which place helped you decide. | **12.25 < 12.52; The whole numbers are equal, and 2 tenths is less than 5 tenths.** |

## PART 2 · APPLY IT

1. **1.75 > 1.57. Leo rode farther.** The whole numbers are both 1. Compare the tenths: 7 tenths is greater than 5 tenths, so Leo's distance is greater.
2. **3.28 < 3.82. Malik earned more.** The whole numbers are both 3. Compare the tenths: 2 tenths is less than 8 tenths, so Malik earned more.

## CHALLENGE

**Jana is not correct. 3.50 > 3.49 because both numbers have 3 ones, but 5 tenths is greater than 4 tenths. The tenths are the first place that differs.**

Accept decimals with added zeros, such as 0.70 for 0.7 and 4.60 for 4.6. For written explanations, accept any accurate comparison of the first place value that is different.