LESSON MAKER PRO

# Decimal Detectives

*Compare and order decimals using hundredths and visual models.*

**GRADE 4 · 4.NF.7**

**4.NF.7** "Compare and order decimal numbers to hundredths and justify by using concrete and visual models. Record the results of comparisons with the words "is greater than," "is equal to," "is less than," and with the symbols >, =, and <."

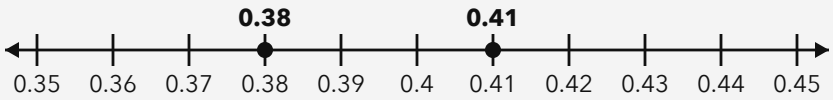
NAME _____ DATE _____

## COMPARE HUNDREDTHS

Write decimals to the hundredths place by adding a zero when needed. On a number line, a number farther right is greater. Numbers at the same point are equal.

### WORKED EXAMPLE

Compare 0.38 and 0.41. Write the result in words and with a symbol.




1. 0.38 is 38 hundredths.
2. 0.41 is 41 hundredths.
3. 38 hundredths is less than 41 hundredths, so 0.38 is to the left of 0.41.

**Answer: 0.38 < 0.41. 0.38 is less than 0.41.**

## PRACTICE 6 problems

**1** Fill in the blank with <, >, or =: 0.6 ___ 0.58

**ANSWER** _____

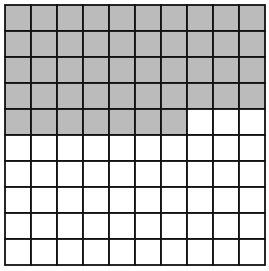
**2** Fill in the blank with <, >, or =: 0.09 ___ 0.12

**ANSWER** _____

**3** Fill in the blank with <, >, or =: 0.70 ___ 0.7

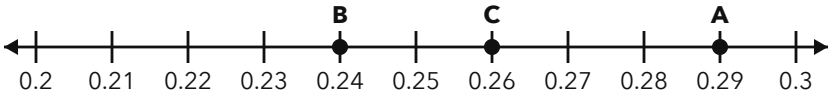
**ANSWER** _____

**4** Each shaded square is one hundredth. Fill in the blank with <, >, or =: shaded amount ___ 0.52



**ANSWER** _____

**5** Order points A, B, and C from least to greatest. Write each point's decimal, too.




**ANSWER** _____

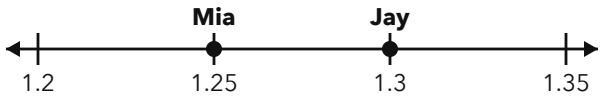
_____

**6** Order 0.83, 0.8, and 0.78 from least to greatest.

**ANSWER** _____

## APPLY IT Show your work

**1** Mia biked 1.25 km, and Jay biked 1.30 km. Use the number line to decide who biked farther. Compare their distances in words and with a symbol.




**ANSWER** _____

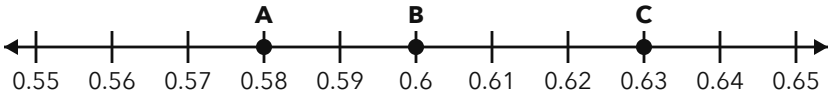
**2** Zuri used 0.65 m of ribbon for a craft, and Omar used 0.56 m. Who used more ribbon? Write a comparison with a symbol and explain using hundredths.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

The number line shows A, B, and C. Put 0.60 in order with the three points from least to greatest. Explain where 0.60 belongs using hundredths.




WORK SPACE AND ANSWER

**ANSWER KEY**

# Decimal Detectives

**GRADE 4 · 4.NF.7**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Fill in the blank with <, >, or =: 0.6 ___ 0.58 | **0.6 > 0.58** |
| 2 | Fill in the blank with <, >, or =: 0.09 ___ 0.12 | **0.09 < 0.12** |
| 3 | Fill in the blank with <, >, or =: 0.70 ___ 0.7 | **0.70 = 0.7** |
| 4 | Each shaded square is one hundredth. Fill in the blank with <, >, or =: shaded amount ___ 0.52 | **0.47 < 0.52** |
| 5 | Order points A, B, and C from least to greatest. Write each point's decimal, too. | **B (0.24), C (0.26), A (0.29)** |
| 6 | Order 0.83, 0.8, and 0.78 from least to greatest. | **0.78, 0.8, 0.83** |

## PART 2 · APPLY IT

1. **Jay biked farther. 1.25 km is less than 1.30 km; 1.25 < 1.30.** Jay's point is farther right on the number line. Also, 125 hundredths is less than 130 hundredths.
2. **Zuri used more ribbon. 0.65 > 0.56 because 65 hundredths is greater than 56 hundredths.** Compare 65 hundredths with 56 hundredths. Since 65 > 56, Zuri used more ribbon.

## CHALLENGE

**A (0.58) < B (0.6) = 0.60 < C (0.63). Point B and 0.60 are both 60 hundredths, so they belong at the same place.**

Accept 0.60 in place of 0.6. For the challenge, accept either order for B and 0.60 if the student shows that they are equal.