LESSON MAKER PRO

# Number Line Quest

*Compare fractions, decimals, and mixed numbers.*

**GRADE 5 · 5.N.1.3**

**5.N.1.3** "Compare and order decimals and fractions, including mixed numbers and fractions less than one, and locate on a number line."

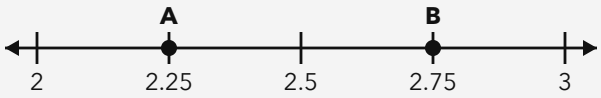
NAME _____ DATE _____

## COMPARE ON A NUMBER LINE

Numbers farther right on a number line are greater. To compare a fraction and a decimal, you can write them in the same form or locate them on a number line. Read the tick marks carefully because each number line may use a different step.

### WORKED EXAMPLE

Write the value of A and B as mixed numbers. Then compare them using < or >.




1. Each tick is 1/4 apart, so A is 2 1/4.
2. B is 2 3/4.
3. A is left of B, so 2 1/4 < 2 3/4.

**Answer: A = 2 1/4, B = 2 3/4; 2 1/4 < 2 3/4**

## PRACTICE 6 problems

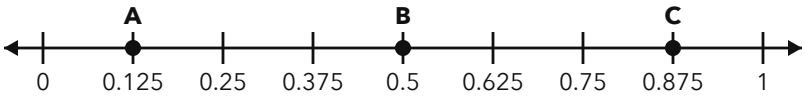
**1** Write <, >, or = in the blank: 0.45 ___ 2/5

**ANSWER** _____

**2** Order 3/4, 0.6, and 0.8 from least to greatest.

**ANSWER** _____

**3** Which point marks 7/8? Write that point's value as a decimal.




**ANSWER** _____

_____

**4** Write the value of point B as a mixed number. Then compare A and B using < or >.




**ANSWER** _____

_____

**5** Write <, >, or = in the blank: 1 2/5 ___ 1.35

**ANSWER** _____

**6** Order 1.1, 9/10, and 1 1/4 from least to greatest.

**ANSWER** _____

## APPLY IT Show your work

**1** Maya's skateboard jump was 0.85 meter long. Leo's jump was 4/5 meter long. Who jumped farther?

WORK SPACE

**ANSWER** _____

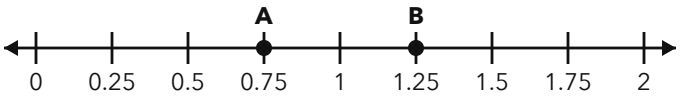
**2** Three routes through a video game map are 1 1/2 kilometers, 1.65 kilometers, and 1 3/5 kilometers long. Order the routes from shortest to longest.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Write the value of each marked point as a fraction or mixed number. Find a mixed number with eighths between the points, and explain how you know it is between them.




WORK SPACE AND ANSWER

**ANSWER KEY**

# Number Line Quest

**GRADE 5 · 5.N.1.3**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Write <, >, or = in the blank: 0.45 ___ 2/5 | **>** |
| 2 | Order 3/4, 0.6, and 0.8 from least to greatest. | **0.6, 3/4, 0.8** |
| 3 | Which point marks 7/8? Write that point's value as a decimal. | **C; 0.875** |
| 4 | Write the value of point B as a mixed number. Then compare A and B using < or >. | **B = 1 3/4; A < B** |
| 5 | Write <, >, or = in the blank: 1 2/5 ___ 1.35 | **>** |
| 6 | Order 1.1, 9/10, and 1 1/4 from least to greatest. | **9/10, 1.1, 1 1/4** |

## PART 2 · APPLY IT

1. **Maya** 4/5 = 0.8, and 0.85 > 0.8.
2. **1 1/2 km, 1 3/5 km, 1.65 km** The lengths are 1.5, 1.6, and 1.65 kilometers. Order those decimals from least to greatest.

## CHALLENGE

**A = 3/4 and B = 1 1/4. One answer is 1 1/8 because 0.75 < 1.125 < 1.25.**

Accept equivalent fractions and decimals where a form is not specified. For the challenge, accept any mixed number with eighths strictly between 3/4 and 1 1/4, with a correct explanation.