LESSON MAKER PRO

Which Number Wins?

Compare fractions, decimals, and integers.

GRADE 7 · 7.N.1.1

7.N.1.1 "Compare and order rational numbers expressed in various forms using the symbols "<", ">", and "="."

NAME _____ DATE _____

COMPARE ON A NUMBER LINE

Write numbers in the same form to compare them. On a number line, the number farther right is greater, even when both numbers are negative.

WORKED EXAMPLE

Compare -3/2 and -0.5 using <, >, or =.



1. -3/2 = -1.5, so it is at A.
2. -0.5 is at B.
3. A is left of B, so -1.5 is less than -0.5.

Answer: -3/2 < -0.5

PRACTICE 4 problems

1 Fill in <, >, or =: -3/4 ___ -0.8

ANSWER _____

2 Fill in <, >, or =: 2/5 ___ 0.4

ANSWER _____

3 Fill in <, >, or =: -2 ___ -7/4

ANSWER _____

4 Order from least to greatest using <: 0.6, 5/8, -0.1

ANSWER _____

APPLY IT Show your work

1 In a game, Kai's score changes by -0.25 point. Lee's changes by -1/3 point. Whose change is greater? Write a comparison.

WORK SPACE

ANSWER _____

2 Three friends skate for 2.4 hours, 2 1/2 hours, and 2.35 hours. Order their times from shortest to longest using <.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says -7/8 < -0.9 because 7/8 < 0.9. Is the student's comparison correct? Write the correct comparison and explain in one sentence.

WORK SPACE AND ANSWER

ANSWER KEY

Which Number Wins?

GRADE 7 · 7.N.1.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Fill in <, >, or =: -3/4 ___ -0.8	**>**
2	Fill in <, >, or =: 2/5 ___ 0.4	**=**
3	Fill in <, >, or =: -2 ___ -7/4	**<**
4	Order from least to greatest using <: 0.6, 5/8, -0.1	**-0.1 < 0.6 < 5/8**

PART 2 · APPLY IT

1. **Kai's change is greater: -0.25 > -1/3.** -1/3 is about -0.333, which is less than -0.25.
2. **2.35 < 2.4 < 2 1/2** Write 2 1/2 as 2.5, then compare the decimals.

CHALLENGE

No, -7/8 > -0.9 because -7/8 = -0.875, and -0.875 is greater than -0.9.

Accept equivalent comparisons in the word problems. In the challenge, accept an explanation based on decimal values or number-line position.