LESSON MAKER PRO

Fraction Face-Off

Compare fractions of the same whole.

GRADE 4 · 4.NOS.D.10

4.NOS.D.10 "Compare two fractions with different numerators and different denominators, understanding that comparisons are valid only when the two fractions refer to the same whole. Use benchmark numbers (e.g., 1/2, 1), common numerators..."

NAME _____ DATE _____

COMPARE FAIRLY

Fractions can be compared only when they refer to the same-size whole. Use 1/2 or 1 as a benchmark, or find equal parts, to decide which fraction is greater.

WORKED EXAMPLE

Compare 3/8 and 5/6. The bars are the same size.



1. 3/8 < 4/8, so 3/8 < 1/2.
2. 5/6 > 3/6, so 5/6 > 1/2.

Answer: 3/8 < 5/6

PRACTICE 4 problems

1 Write <, >, or =: 2/7 ___ 7/10.

ANSWER _____

2 Write <, >, or =: 4/9 ___ 2/11.

ANSWER _____

3 Compare 2/4 and 7/14. Explain your choice.

ANSWER _____

_____

4 Write <, >, or =: 9/10 ___ 11/12.

ANSWER _____

APPLY IT Show your work

1 Two pizzas are the same size. Mia eats 4/7 of one, and Leo eats 7/14 of the other. Who eats more? Explain.

WORK SPACE

ANSWER _____

2 Ana and Bo fill identical water bottles after soccer. Ana fills 4/9 of hers, and Bo fills 7/12 of his. Whose bottle has more water? Explain.

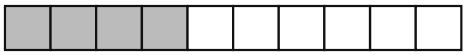
WORK SPACE

ANSWER _____

CHALLENGE One step up

These bars show two equal-size snacks. Compare the shaded fractions using 1/2. If the snacks were different sizes, could you use the fractions alone to tell who ate more? Explain.

Snack A



Snack B



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 4 · 4.NOS.D.10

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =: 2/7 ___ 7/10.	**2/7 < 7/10**
2	Write <, >, or =: 4/9 ___ 2/11.	**4/9 > 2/11**
3	Compare 2/4 and 7/14. Explain your choice.	**2/4 = 7/14. Both fractions equal 1/2.**
4	Write <, >, or =: 9/10 ___ 11/12.	**9/10 < 11/12**

PART 2 · APPLY IT

1. **Mia eats more.** 7/14 = 1/2, and 4/7 > 1/2.
2. **Bo's bottle has more water.** 4/9 < 1/2, while 7/12 > 1/2.

CHALLENGE

4/10 < 2/4 because 4/10 < 1/2 and 2/4 = 1/2. No. Fractions of different-size snacks do not tell which amount is larger.

Accept other correct comparisons using equivalent fractions or benchmarks. For the challenge, students must note that the fractions alone cannot compare amounts from different-size wholes.