LESSON MAKER PRO

Fraction Face-Off

Compare fractions that name parts of the same whole.

GRADE 4 · 4.NR.4.2

4.NR.4.2 "Compare two fractions with the same numerator or the same denominator by reasoning about their size and recognize that comparisons are valid only when the two fractions refer to the same whole."

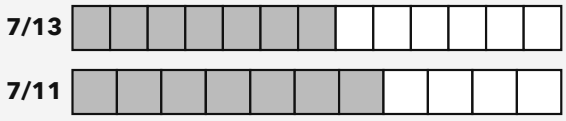
NAME _____ DATE _____

COMPARE THE PARTS

If fractions have the same denominator, the fraction with the larger numerator is greater. If fractions have the same numerator, the fraction with the smaller denominator is greater because each part is larger. To compare actual amounts using only the fractions, first check that the wholes are equal-sized. Equal fractions of different-sized wholes can represent different amounts.

WORKED EXAMPLE

Compare 7/13 and 7/11.



1. Both fractions have a numerator of 7.
2. Elevenths are larger parts than thirteenths.
3. Seven elevenths is greater than seven thirteenths.

Answer: 7/13 < 7/11

PRACTICE 6 problems

1 Write <, >, or =. 3/8 ___ 5/8

ANSWER _____

2 Write <, >, or =. 4/9 ___ 4/6

ANSWER _____

3 Write <, >, or =. 1/12 ___ 1/20

ANSWER _____

4 Write <, >, or =. 9/16 ___ 9/14

ANSWER _____

5 Write <, >, or =. 10/18 ___ 15/18

ANSWER _____

6 Mina ate 2/9 of a small pizza. Theo ate 2/9 of a large pizza. Can you tell who ate more pizza? Explain.

ANSWER _____

_____

APPLY IT Show your work

1 Jada and Omar play a fitness game on the same 14-level trail. Jada has finished 5/14 of the trail. Omar has finished 9/14 of the trail. Who has finished more of the trail?

WORK SPACE

ANSWER _____

2 At digital art club, Priya colored 3/10 of one poster. Leo colored 3/16 of an identical-sized poster. Who colored a greater part of a poster?

WORK SPACE

ANSWER _____

CHALLENGE One step up

All fractions name parts of the same whole. Order 3/15, 8/15, and 8/12 from least to greatest. Then explain your reasoning in two sentences.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 4 · 4.NR.4.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =. 3/8 ___ 5/8	**3/8 < 5/8**
2	Write <, >, or =. 4/9 ___ 4/6	**4/9 < 4/6**
3	Write <, >, or =. 1/12 ___ 1/20	**1/12 > 1/20**
4	Write <, >, or =. 9/16 ___ 9/14	**9/16 < 9/14**
5	Write <, >, or =. 10/18 ___ 15/18	**10/18 < 15/18**
6	Mina ate 2/9 of a small pizza. Theo ate 2/9 of a large pizza. Can you tell who ate more pizza? Explain.	**Theo ate more pizza. Both ate 2/9 of their pizza, and 2/9 of the larger pizza is a larger amount.**

PART 2 · APPLY IT

1. **Omar has finished more of the trail.** Both fractions have the same denominator, 14. Since 9 is greater than 5, 9/14 is greater than 5/14.
2. **Priya colored a greater part of a poster.** Both fractions have the same numerator, 3, and the posters are equal-sized wholes. Tenths are larger parts than sixteenths, so 3/10 is greater than 3/16.

CHALLENGE

3/15 < 8/15 < 8/12. With fifteenths, 3 parts is less than 8 parts, and with 8 parts, twelfths are larger pieces than fifteenths.

Accept comparison symbols or correctly written comparison statements. For the pizza item, accept Theo with reasoning that the same positive fraction of a larger whole gives a larger amount. Equal written fractions do not guarantee equal actual amounts; when whole sizes are not known, those fractions alone cannot compare amounts.