LESSON MAKER PRO

Fraction Face-Off

Compare fractions by thinking about equal wholes.

GRADE 3 · 3.NF.A.3d

CCSS.Math.Content.3.NF.A.3d "Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole..."

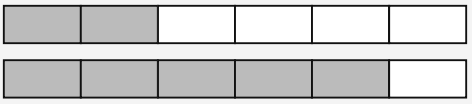
NAME _____ DATE _____

COMPARE EQUAL WHOLES

When fractions have the same denominator, the fraction with more parts is greater. When fractions have the same numerator, the fraction with fewer equal parts is greater. Only compare fractions when they refer to wholes that are the same size.

WORKED EXAMPLE

Look at the fraction bars. Compare the shaded amounts using >, =, or <.



1. Each bar shows one same-size whole divided into 6 equal parts.
2. The first bar has 2 shaded parts, and the second bar has 5 shaded parts.
3. With the same denominator, 5 parts is more than 2 parts.

Answer: 2/6 < 5/6

PRACTICE 6 problems

1 Look at the fraction bars. Compare the shaded amounts using >, =, or <.



ANSWER _____

2 Look at the fraction bars. Compare the shaded amounts using >, =, or <.



ANSWER _____

3 Write >, =, or <. 7/10 ___ 3/10

ANSWER _____

4 Write >, =, or <. 1/4 ___ 1/12

ANSWER _____

5 Write >, =, or <. 5/6 ___ 5/8

ANSWER _____

6 Write >, =, or <. Then explain how you know. 2/9 ___ 7/9

ANSWER _____

APPLY IT Show your work

1 Maya and Jo each have an identical pizza cut into 12 equal slices. Maya eats 7/12 of her pizza. Jo eats 5/12 of her pizza. Who eats more pizza? Write a comparison.

WORK SPACE

ANSWER _____

2 Ava colors 3/4 of her poster. Ben colors 3/8 of an equal-size poster. Who colors more of a poster? Write a comparison.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Lina eats 1/2 of a small sandwich. Omar eats 3/8 of a large sandwich. Can you tell who ate more sandwich? Explain why or why not.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 3 · 3.NF.A.3d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the fraction bars. Compare the shaded amounts using >, =, or <.	**3/8 < 3/5**
2	Look at the fraction bars. Compare the shaded amounts using >, =, or <.	**4/7 > 4/9**
3	Write >, =, or <. 7/10 ___ 3/10	**7/10 > 3/10**
4	Write >, =, or <. 1/4 ___ 1/12	**1/4 > 1/12**
5	Write >, =, or <. 5/6 ___ 5/8	**5/6 > 5/8**
6	Write >, =, or <. Then explain how you know. 2/9 ___ 7/9	**2/9 < 7/9 because both fractions have 9 equal parts, and 2 parts is less than 7 parts.**

PART 2 · APPLY IT

1. **Maya eats more. 7/12 > 5/12.** The pizzas are the same size and are cut into the same number of equal slices. Since 7 is greater than 5, 7/12 is greater than 5/12.
2. **Ava colors more. 3/4 > 3/8.** Both fractions have the same numerator, 3. Fourths are larger pieces than eighths when the wholes are the same size.

CHALLENGE

No. You cannot compare because the sandwiches are different-size wholes.

Accept the comparison symbols and clear explanations based on equal-size wholes, equal denominators, or equal numerators. For the challenge, accept any response that says the comparison cannot be made because the wholes are not the same size.