LESSON MAKER PRO

Fraction Face-Off

Compare parts of the same whole.

GRADE 4 · 4.NR.4.3

4.NR.4.3 "Compare two fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies and recognize that comparisons are valid only when the two fractions refer to the same whole."

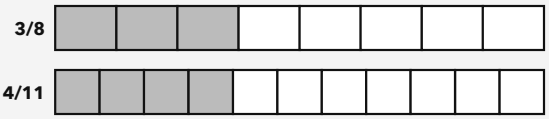
NAME _____ DATE _____

COMPARE FAIRLY

You can compare fractions when they name parts of the same-size whole. Use a benchmark fraction or rename both fractions with a common denominator. If the wholes are different sizes, compare the actual amounts instead.

WORKED EXAMPLE

Compare 3/8 and 4/11.



1. Find a common denominator: 8 × 11 = 88.
2. Rename 3/8 as 33/88.
3. Rename 4/11 as 32/88.
4. Compare: 33/88 > 32/88.

Answer: 3/8 > 4/11

PRACTICE 6 problems

1 Write <, >, or =. 1/2 ___ 2/5

ANSWER _____

2 Write <, >, or =. 1/6 ___ 1/7

ANSWER _____

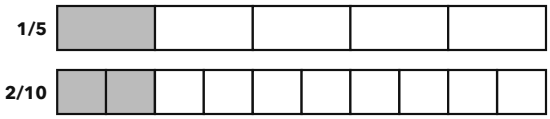
3 Write <, >, or =. 2/9 ___ 1/5

ANSWER _____

4 Write <, >, or =. 2/7 ___ 1/5

ANSWER _____

5 The bars show parts of same-size wholes. Write <, >, or =. 1/5 ___ 2/10



ANSWER _____

6 Two same-size granola bars are cut into equal parts. Kim eats 1/6 of her bar. Lee eats 2/5 of his bar. Who eats a greater fraction of a bar?

ANSWER _____

APPLY IT Show your work

1 Jordan and River take the same 20-question game quiz. Jordan completes 1/5 of the quiz. River completes 1/2 of the quiz. Who completes more questions, and how many more questions does that person complete?

WORK SPACE

ANSWER _____

2 Li drinks 1/2 of a 10-ounce smoothie. Sam drinks 2/5 of a 15-ounce smoothie. Who drinks more smoothie? Can you decide by comparing the fractions alone?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Banner A has 25 equal sections, and 2/5 of its sections are blue. Banner B has 14 equal sections, and 1/2 of its sections are blue. Which banner has more blue sections? Explain why comparing 2/5 and 1/2 by itself would not answer the question.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 4 · 4.NR.4.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =. 1/2 ___ 2/5	**1/2 > 2/5**
2	Write <, >, or =. 1/6 ___ 1/7	**1/6 > 1/7**
3	Write <, >, or =. 2/9 ___ 1/5	**2/9 > 1/5**
4	Write <, >, or =. 2/7 ___ 1/5	**2/7 > 1/5**
5	The bars show parts of same-size wholes. Write <, >, or =. 1/5 ___ 2/10	**1/5 = 2/10**
6	Two same-size granola bars are cut into equal parts. Kim eats 1/6 of her bar. Lee eats 2/5 of his bar. Who eats a greater fraction of a bar?	**Lee eats a greater fraction.**

PART 2 · APPLY IT

1. **River completes more questions, by 6 questions.** Jordan completes 4 questions because 1/5 of 20 is 4. River completes 10 questions because 1/2 of 20 is 10, and 10 - 4 = 6.
2. **Sam drinks more smoothie, 6 ounces compared with Li's 5 ounces. No, the fractions alone cannot be used because the smoothie wholes are different sizes.** Li drinks 5 ounces, and Sam drinks 6 ounces. Compare the ounces, not just the fractions, because the smoothie sizes are different.

CHALLENGE

Banner A has more blue sections. Banner A has 10 blue sections, and Banner B has 7 blue sections. Comparing 2/5 and 1/2 alone does not answer the question because the banners have different numbers of sections.

Accept correct comparison symbols and equivalent fraction reasoning. For explanations about different wholes, accept responses that state students must compare actual amounts or use the size of each whole.