LESSON MAKER PRO

Fraction Face-Off

Compare parts of the same whole.

GRADE 4 · 4.NF.A.14

4.NF.A.14 "Compare two fractions with different numerators and different denominators using concrete models, benchmarks (0, ½, 1), common denominators, and/or common numerators, recording the comparisons with symbols >, =, or <..."

NAME _____ DATE _____

COMPARE FAIRLY

Fractions can tell you which part is greater only when the wholes are the same size. Use a benchmark such as 1/2, or rename fractions with the same denominator.

WORKED EXAMPLE

Compare 2/3 and 3/4.



1. Rename 2/3 as 8/12.
2. Rename 3/4 as 9/12.
3. 8/12 < 9/12.

Answer: 2/3 < 3/4

PRACTICE 4 problems

1 Compare 3/8 and 5/6. Write <, >, or = and give a reason.

ANSWER _____

2 Compare 4/9 and 5/12. Write <, >, or = and give a reason.

ANSWER _____

3 Compare 5/8 and 7/10. Write <, >, or = and give a reason.

ANSWER _____

4 Compare 7/10 and 2/5. Write <, >, or = and give a reason.

ANSWER _____

APPLY IT Show your work

1 Ari and Bo have same-size sticker albums. The bars show the parts they filled. Who filled more? Explain.



ANSWER _____

2 Jae finishes 4/5 of a game level. Lee finishes 5/6 of the same level. Who finishes more? Explain.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Casey reads 3/5 of a 20-page comic. Mina reads 2/3 of a 30-page comic. Who reads more pages? Show the page counts. Why can't the fractions alone tell you?

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Compare 3/8 and 5/6. Write <, >, or = and give a reason.	**3/8 < 5/6; 3/8 is less than 1/2, and 5/6 is greater than 1/2.**
2	Compare 4/9 and 5/12. Write <, >, or = and give a reason.	**4/9 > 5/12; 16/36 > 15/36.**
3	Compare 5/8 and 7/10. Write <, >, or = and give a reason.	**5/8 < 7/10; 25/40 < 28/40.**
4	Compare 7/10 and 2/5. Write <, >, or = and give a reason.	**7/10 > 2/5; 7/10 > 4/10.**

PART 2 · APPLY IT

1. **Ari filled more. 5/8 > 7/12.** Ari filled 15/24, while Bo filled 14/24.
2. **Lee finishes more. 4/5 < 5/6.** Rename the fractions as 24/30 and 25/30.

CHALLENGE

Casey reads 12 pages, and Mina reads 20 pages, so Mina reads more. The comics have different numbers of pages, so the fractions refer to different wholes.

Accept any correct comparison with a valid reason, including a benchmark or equivalent fractions. In the challenge, students must account for the different-sized wholes.