

Fraction Face-Off

Compare fractions and mixed numbers with symbols and reasons.

GRADE 4 • 4.NS.3.d

4.NS.3.d "Compare two fractions (proper or improper) and/or mixed numbers using fractions with denominators of 12 or less, using the symbols $>$, $<$, and $=$ (e.g., $23 > 17$). Justify comparisons orally, in writing, or with a model.*"

NAME _____

DATE _____

COMPARE THE PARTS

Compare fractions by rewriting them with a common denominator, then compare the numerators. For mixed numbers, compare the whole numbers first. If the whole numbers match, compare the fractional parts.

WORKED EXAMPLE

Compare $7/11$ and $5/8$.

1. Find a common denominator: 88.
2. Rewrite $7/11$ as $56/88$.
3. Rewrite $5/8$ as $55/88$.
4. Since $56/88 > 55/88$, $7/11 > 5/8$.

Answer: $7/11 > 5/8$

PRACTICE 6 problems

1 $3/4$ ____ $2/3$

ANSWER _____

2 $9/10$ ____ $10/12$

ANSWER _____

3 $1\ 1/2$ ____ $1\ 2/3$

ANSWER _____

4 $2\ 1/4$ ____ $9/4$

ANSWER _____

5 $3/10$ ____ $1/3$

ANSWER _____

6 $1\ 3/6$ ____ $1\ 1/2$

ANSWER _____

APPLY IT Show your work

- 1** During an art club project, Ava painted $\frac{9}{12}$ of a mural panel. Leo painted $\frac{3}{4}$ of another same-size panel. Compare the amounts using $>$, $<$, or $=$. Tell why.

WORK SPACE

ANSWER _____

- 2** At a bike challenge, Nia rode $1\frac{2}{3}$ miles. Omar rode $1\frac{3}{6}$ miles. Who rode farther? Use a comparison symbol and explain.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Compare $3\frac{1}{4}$ and $13/4$. Write a comparison statement and explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$\frac{3}{4}$ ___ $\frac{2}{3}$	$\frac{3}{4} > \frac{2}{3}$
2	$\frac{9}{10}$ ___ $\frac{10}{12}$	$\frac{9}{10} > \frac{10}{12}$
3	$1\frac{1}{2}$ ___ $1\frac{2}{3}$	$1\frac{1}{2} < 1\frac{2}{3}$
4	$2\frac{1}{4}$ ___ $\frac{9}{4}$	$2\frac{1}{4} = \frac{9}{4}$
5	$\frac{3}{10}$ ___ $\frac{1}{3}$	$\frac{3}{10} < \frac{1}{3}$
6	$1\frac{3}{6}$ ___ $1\frac{1}{2}$	$1\frac{3}{6} = 1\frac{1}{2}$

PART 2 • APPLY IT

1. **$\frac{9}{12} = \frac{3}{4}$. They painted equal amounts.** Rewrite $\frac{3}{4}$ as $\frac{9}{12}$. Both students painted $\frac{9}{12}$ of a panel.
2. **$1\frac{2}{3} > 1\frac{3}{6}$, so Nia rode farther.** Both riders completed 1 whole mile. Since $\frac{2}{3}$ is greater than $\frac{3}{6}$, Nia rode farther.

CHALLENGE

$3\frac{1}{4} = \frac{13}{4}$ because 3 wholes equal $\frac{12}{4}$, and $\frac{12}{4} + \frac{1}{4} = \frac{13}{4}$.

Accept correct comparison symbols and equivalent-fraction reasoning. For written explanations, accept any accurate method using common denominators, equivalent fractions, or mixed-number conversion.