

Fraction Face-Off

Compare fractions with the same-sized parts.

GRADE 3 • 3.NS.3.g

3.NS.3.g "Compare two fractions (proper or improper) and/or mixed numbers with like denominators of 2, 3, 4, 5, 6, 8, and 10 (e.g., $36 < 46$) using words (greater than, less than, equal to) and/or symbols ($>$, $<$, $=$), using area/region models..."

NAME _____

DATE _____

SAME DENOMINATOR, EASY COMPARE

When fractions have the same denominator, compare the numerators. The fraction with more equal parts is greater. For mixed numbers, compare the whole numbers first, then compare the fractional parts if the whole numbers are equal.

WORKED EXAMPLE

Compare $5/8$ and $3/8$.

- Both fractions are divided into eighths.
- Compare the numerators: 5 is greater than 3.
- The fraction with 5 eighths is greater.

Answer: $5/8 > 3/8$

PRACTICE 6 problems

- 1** Area models: Each square is one equal part.
A: $[\blacksquare][\blacksquare][\blacksquare][\square]$ B: $[\blacksquare][\blacksquare][\square][\square]$ Write $>$, $<$, or $=$. $3/4$ ____ $2/4$

ANSWER _____

- 2** Length models: Each bar is split into 5 equal lengths. A: $[=====][=====][=====][]$
B: $[=====][=====][=====][=====][]$ Write $>$, $<$, or $=$. $3/5$ ____ $4/5$

ANSWER _____

- 3** Write $>$, $<$, or $=$. $7/10$ ____ $9/10$

ANSWER _____

- 4** Write $>$, $<$, or $=$. $9/5$ ____ $7/5$

ANSWER _____

- 5** Write $>$, $<$, or $=$. $2 \frac{1}{3}$ ____ $2 \frac{2}{3}$

ANSWER _____

- 6** Write $>$, $<$, or $=$. $1 \frac{5}{6}$ ____ $2 \frac{1}{6}$

ANSWER _____

APPLY IT Show your work

- 1** At the skate park, Jada practiced for $1\frac{3}{4}$ hours on Saturday. Eli practiced for $1\frac{1}{4}$ hours. Who practiced longer? Write a comparison sentence using greater than or less than.

WORK SPACE

ANSWER _____

- 2** In coding club, Niko finished $\frac{8}{10}$ of a game level. Priya finished $\frac{5}{10}$ of the same game level. Who finished more? Write a comparison sentence using greater than or less than.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Compare $1\frac{1}{6}$ and $1\frac{5}{6}$. Write $>$, $<$, or $=$. Then explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Area models: Each square is one equal part. A: $\begin{bmatrix} \blacksquare & \blacksquare \\ \blacksquare & \square \end{bmatrix}$ B: $\begin{bmatrix} \blacksquare & \blacksquare \\ \square & \square \end{bmatrix}$ Write $>$, $<$, or $=$. $\frac{3}{4}$ ___ $\frac{2}{4}$	$\frac{3}{4} > \frac{2}{4}$
2	Length models: Each bar is split into 5 equal lengths. A: $\begin{bmatrix} \text{=====} \end{bmatrix}$ B: $\begin{bmatrix} \text{=====} \end{bmatrix}$ Write $>$, $<$, or $=$. $\frac{3}{5}$ ___ $\frac{4}{5}$	$\frac{3}{5} < \frac{4}{5}$
3	Write $>$, $<$, or $=$. $\frac{7}{10}$ ___ $\frac{9}{10}$	$\frac{7}{10} < \frac{9}{10}$
4	Write $>$, $<$, or $=$. $\frac{9}{5}$ ___ $\frac{7}{5}$	$\frac{9}{5} > \frac{7}{5}$
5	Write $>$, $<$, or $=$. $2 \frac{1}{3}$ ___ $2 \frac{2}{3}$	$2 \frac{1}{3} < 2 \frac{2}{3}$
6	Write $>$, $<$, or $=$. $1 \frac{5}{6}$ ___ $2 \frac{1}{6}$	$1 \frac{5}{6} < 2 \frac{1}{6}$

PART 2 • APPLY IT

- $1 \frac{3}{4} > 1 \frac{1}{4}$, so Jada practiced longer.** Both students practiced 1 whole hour. Compare the fourths: $\frac{3}{4}$ is greater than $\frac{1}{4}$.
- $\frac{8}{10} > \frac{5}{10}$, so Niko finished more.** Both fractions are in tenths. Since 8 is greater than 5, $\frac{8}{10}$ is greater than $\frac{5}{10}$.

CHALLENGE

$11/6 = 1 \frac{5}{6}$. Both numbers mean 11 sixths.

Accept $>$, $<$, $=$ or correctly written comparison words where the problem asks for a comparison. For the challenge, accept an explanation that $1 \frac{5}{6}$ equals $\frac{6}{6} + \frac{5}{6}$, which is $11/6$.