

Fraction Face-Off

Compare fractions by thinking about equal parts.

GRADE 3 • 3.NF.A

CCSS.Math.Content.3.NF.A "Develop understanding of fractions as numbers."

NAME _____

DATE _____

COMPARE EQUAL PARTS

Fractions name equal parts of one whole. When two fractions have the same denominator, the fraction with the greater numerator is greater. When two fractions have the same numerator, the fraction with the smaller denominator is greater because each part is larger.

WORKED EXAMPLE

Compare $\frac{7}{11}$ and $\frac{4}{11}$.

1. Both fractions have denominator 11.
2. Compare the numerators: 7 is greater than 4.
3. With equal-size parts, 7 parts is more than 4 parts.

Answer: $\frac{7}{11} > \frac{4}{11}$

PRACTICE 6 problems

1 Write $<$, $>$, or $=$. $\frac{2}{9}$ ___ $\frac{6}{9}$

ANSWER _____

2 Write $<$, $>$, or $=$. $\frac{5}{6}$ ___ $\frac{5}{8}$

ANSWER _____

3 Which fraction is greater: $\frac{1}{4}$ or $\frac{1}{10}$?

ANSWER _____

4 Order from least to greatest: $\frac{4}{5}$, $\frac{1}{5}$, $\frac{3}{5}$.

ANSWER _____

5 On a number line from 0 to 1, which point is farther right: $\frac{3}{8}$ or $\frac{5}{8}$?

ANSWER _____

6 Write $<$, $>$, or $=$. $\frac{1}{2}$ ___ $\frac{1}{6}$

ANSWER _____

APPLY IT Show your work

- 1** At recess, Jo rode a scooter for $\frac{2}{6}$ of the time, and Kai rode for $\frac{5}{6}$ of the time. Who rode longer?

WORK SPACE

ANSWER _____

- 2** At art club, one poster was colored $\frac{3}{4}$ blue. Another poster was colored $\frac{3}{9}$ blue. Which poster had more blue?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Lina says $\frac{3}{8}$ is greater than $\frac{3}{5}$ because 8 is greater than 5. Is Lina correct? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $<$, $>$, or $=$. $2/9$ ___ $6/9$	$<$
2	Write $<$, $>$, or $=$. $5/6$ ___ $5/8$	$>$
3	Which fraction is greater: $1/4$ or $1/10$?	$1/4$
4	Order from least to greatest: $4/5$, $1/5$, $3/5$.	$1/5$, $3/5$, $4/5$
5	On a number line from 0 to 1, which point is farther right: $3/8$ or $5/8$?	$5/8$
6	Write $<$, $>$, or $=$. $1/2$ ___ $1/6$	$>$

PART 2 • APPLY IT

1. **Kai rode longer.** Both fractions have sixths. Since 5 is greater than 2, $5/6$ is greater than $2/6$.
2. **The poster with $3/4$ blue had more blue.** Both fractions have 3 parts counted. Fourths are larger than ninths, so $3/4$ is greater than $3/9$.

CHALLENGE

No. $3/8 < 3/5$ because both fractions have 3 parts counted, and fifths are larger than eighths.

Accept the comparison symbols or correct word statements such as "less than" and "greater than." For the challenge, accept explanations that correctly state that a smaller denominator means larger equal parts when numerators are the same.