

Fraction Face-Off

Compare fraction sizes and spot equal fractions.

GRADE 3 • 3.NF.A.3

CCSS.Math.Content.3.NF.A.3 "Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size."

NAME _____

DATE _____

COMPARE FRACTION SIZES

Fractions can be equivalent when they name the same amount. When fractions have the same denominator, the larger numerator names more parts. When fractions have the same numerator, the smaller denominator means each part is larger.

WORKED EXAMPLE

Show that $\frac{7}{14}$ and $\frac{1}{2}$ are equivalent.

1. Start with $\frac{7}{14}$.
2. Divide the numerator and denominator by 7.
3. $\frac{7}{14} = \frac{1}{2}$.
4. Both fractions name the same amount.

Answer: $\frac{7}{14} = \frac{1}{2}$

PRACTICE 6 problems

1 Write $<$, $>$, or $=$. $\frac{3}{5}$ ___ $\frac{4}{5}$

ANSWER _____

2 Write $<$, $>$, or $=$. $\frac{6}{8}$ ___ $\frac{6}{10}$

ANSWER _____

3 Fill in the blank. $\frac{9}{15} = \frac{\quad}{5}$

ANSWER _____

4 Write $<$, $>$, or $=$. $\frac{5}{6}$ ___ $\frac{4}{6}$

ANSWER _____

5 Write $<$, $>$, or $=$. $\frac{3}{8}$ ___ $\frac{3}{10}$

ANSWER _____

6 Which fraction is equivalent to $\frac{9}{12}$? Circle one: $\frac{3}{4}$, $\frac{5}{8}$, $\frac{8}{15}$

ANSWER _____

APPLY IT Show your work

- 1** At a school game club, Eli finishes $\frac{5}{8}$ of a puzzle. Noor finishes $\frac{5}{12}$ of an identical puzzle. Who finishes more?

WORK SPACE

ANSWER _____

- 2** Ava reads $\frac{9}{15}$ of a comic book. Bo reads $\frac{3}{5}$ of an identical comic book. Do they read the same amount?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Nia says that $\frac{5}{9}$ is greater than $\frac{5}{6}$ because 9 is greater than 6. Is Nia correct? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $<$, $>$, or $=$. $\frac{3}{5}$ $\underline{\hspace{1cm}}$ $\frac{4}{5}$	$<$
2	Write $<$, $>$, or $=$. $\frac{6}{8}$ $\underline{\hspace{1cm}}$ $\frac{6}{10}$	$>$
3	Fill in the blank. $\frac{9}{15} = \underline{\hspace{1cm}}/5$	3
4	Write $<$, $>$, or $=$. $\frac{5}{6}$ $\underline{\hspace{1cm}}$ $\frac{4}{6}$	$>$
5	Write $<$, $>$, or $=$. $\frac{3}{8}$ $\underline{\hspace{1cm}}$ $\frac{3}{10}$	$>$
6	Which fraction is equivalent to $\frac{9}{12}$? Circle one: $\frac{3}{4}$, $\frac{5}{8}$, $\frac{8}{15}$	$\frac{3}{4}$

PART 2 • APPLY IT

1. **Eli finishes more, because $\frac{5}{8} > \frac{5}{12}$.** The fractions have the same numerator. Eighths are larger pieces than twelfths, so $\frac{5}{8}$ is greater than $\frac{5}{12}$.
2. **Yes, they read the same amount.** Divide the numerator and denominator of $\frac{9}{15}$ by 3. This shows that $\frac{9}{15} = \frac{3}{5}$.

CHALLENGE

No. $\frac{5}{9} < \frac{5}{6}$ because the fractions have the same numerator, and sixths are larger pieces than ninths.

Accept comparison symbols or matching words, such as greater than and less than. For the challenge, accept explanations that state that a smaller denominator makes larger equal-size parts when the numerators are the same.