

Fraction Face-Off

Compare fractions that name the same whole.

GRADE 4 • 4.NF.A.2

CCSS.Math.Content.4.NF.A.2 "Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$..."

NAME _____

DATE _____

COMPARE FAIRLY

You can compare fractions only when they describe the same-size whole. Make equivalent fractions with a common denominator, then compare the numerators. Use $>$, $<$, or $=$ to record your comparison.

WORKED EXAMPLE

Compare $\frac{13}{14}$ and $\frac{8}{11}$.

1. Use 154 as a common denominator.
2. $\frac{13}{14} = \frac{143}{154}$.
3. $\frac{8}{11} = \frac{112}{154}$.
4. Since $143 > 112$, $\frac{13}{14}$ is greater.

Answer: $\frac{13}{14} > \frac{8}{11}$

PRACTICE 6 problems

1 Write $>$, $<$, or $=$: $\frac{1}{4}$ ___ $\frac{2}{3}$

ANSWER _____

2 Write $>$, $<$, or $=$: $\frac{5}{6}$ ___ $\frac{3}{5}$

ANSWER _____

3 Write $>$, $<$, or $=$: $\frac{3}{7}$ ___ $\frac{5}{12}$

ANSWER _____

4 Write $>$, $<$, or $=$: $\frac{2}{5}$ ___ $\frac{3}{7}$

ANSWER _____

5 Write $>$, $<$, or $=$: $\frac{7}{10}$ ___ $\frac{5}{6}$

ANSWER _____

6 Write $>$, $<$, or $=$: $\frac{2}{3}$ ___ $\frac{4}{6}$

ANSWER _____

APPLY IT Show your work

- 1** Kai filled $\frac{5}{6}$ of a game progress bar. Nia filled $\frac{2}{3}$ of an identical progress bar. Who filled more? Write a comparison.

WORK SPACE

ANSWER _____

- 2** At art club, Jada colored $\frac{3}{5}$ of a poster. Malik colored $\frac{4}{7}$ of an identical poster. Who colored more? Write a comparison.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Three robots each finished part of an identical obstacle course. Order $\frac{3}{7}$, $\frac{5}{9}$, and $\frac{2}{3}$ from least to greatest. Explain by using a common denominator.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $>$, $<$, or $=$: $1/4$ ___ $2/3$	$1/4 < 2/3$
2	Write $>$, $<$, or $=$: $5/6$ ___ $3/5$	$5/6 > 3/5$
3	Write $>$, $<$, or $=$: $3/7$ ___ $5/12$	$3/7 > 5/12$
4	Write $>$, $<$, or $=$: $2/5$ ___ $3/7$	$2/5 < 3/7$
5	Write $>$, $<$, or $=$: $7/10$ ___ $5/6$	$7/10 < 5/6$
6	Write $>$, $<$, or $=$: $2/3$ ___ $4/6$	$2/3 = 4/6$

PART 2 • APPLY IT

1. **Kai filled more. $5/6 > 2/3$.** Change $2/3$ to $4/6$. Since $5/6$ is greater than $4/6$, Kai filled more.
2. **Jada colored more. $3/5 > 4/7$.** Use 35 as a common denominator: $3/5 = 21/35$ and $4/7 = 20/35$. Since $21/35$ is greater, Jada colored more.

CHALLENGE

$3/7 < 5/9 < 2/3$, because $3/7 = 27/63$, $5/9 = 35/63$, and $2/3 = 42/63$.

Accept any correct comparison supported by equivalent fractions, a benchmark fraction, or a valid visual model, as long as the fractions name the same-size whole. For the challenge, accept the correct least-to-greatest order with a valid common-denominator explanation.