

Fraction Finish Line

Compare and order fractions using smart strategies.

GRADE 5 • 5.NR.3.2

5.NR.3.2 "Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies."

NAME _____

DATE _____

CHOOSE A STRATEGY

You can compare fractions by making equivalent fractions with a common denominator. You can also use benchmark fractions, such as $\frac{1}{2}$ or 1, to decide which fraction is greater. When ordering, compare all the fractions and write them from least to greatest or greatest to least.

WORKED EXAMPLE

Order $\frac{5}{6}$, $\frac{7}{9}$, and $\frac{3}{4}$ from least to greatest.

1. Use 36 as a common denominator.
2. $\frac{5}{6} = \frac{30}{36}$.
3. $\frac{7}{9} = \frac{28}{36}$ and $\frac{3}{4} = \frac{27}{36}$.
4. Compare $\frac{27}{36}$, $\frac{28}{36}$, and $\frac{30}{36}$.

Answer: $\frac{3}{4} < \frac{7}{9} < \frac{5}{6}$

PRACTICE 6 problems

1 Write $>$, $<$, or $=$. $\frac{3}{4}$ ____ $\frac{5}{8}$

ANSWER _____

2 Write $>$, $<$, or $=$. $\frac{7}{10}$ ____ $\frac{2}{3}$

ANSWER _____

3 Order from least to greatest: $\frac{1}{2}$, $\frac{5}{6}$, $\frac{3}{5}$

ANSWER _____

4 Order from greatest to least: $\frac{7}{8}$, $\frac{4}{5}$, $\frac{9}{10}$

ANSWER _____

5 Write $>$, $<$, or $=$. $\frac{11}{12}$ ____ $\frac{8}{9}$

ANSWER _____

6 Order from least to greatest: $\frac{2}{7}$, $\frac{1}{3}$, $\frac{3}{8}$

ANSWER _____

APPLY IT Show your work

- 1** Three players are working through a video game. Laila has finished $\frac{3}{4}$ of the game, Mateo has finished $\frac{5}{8}$, and Priya has finished $\frac{2}{3}$. Order their progress from least to greatest.

WORK SPACE

ANSWER _____

- 2** At a school music club, Ken learned $\frac{7}{10}$ of a song, Rosa learned $\frac{3}{5}$, and Devon learned $\frac{5}{6}$. Who learned the most, and who learned the least?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Order $\frac{5}{12}$, $\frac{1}{2}$, and $\frac{7}{12}$ from least to greatest. Explain how you know using $\frac{1}{2}$ as a benchmark.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $>$, $<$, or $=$. $\frac{3}{4}$ ____ $\frac{5}{8}$	$>$
2	Write $>$, $<$, or $=$. $\frac{7}{10}$ ____ $\frac{2}{3}$	$>$
3	Order from least to greatest: $\frac{1}{2}$, $\frac{5}{6}$, $\frac{3}{5}$	$\frac{1}{2} < \frac{3}{5} < \frac{5}{6}$
4	Order from greatest to least: $\frac{7}{8}$, $\frac{4}{5}$, $\frac{9}{10}$	$\frac{9}{10} > \frac{7}{8} > \frac{4}{5}$
5	Write $>$, $<$, or $=$. $\frac{11}{12}$ ____ $\frac{8}{9}$	$>$
6	Order from least to greatest: $\frac{2}{7}$, $\frac{1}{3}$, $\frac{3}{8}$	$\frac{2}{7} < \frac{1}{3} < \frac{3}{8}$

PART 2 • APPLY IT

1. **Mateo, Priya, Laila** Compare the fractions: $\frac{5}{8} = \frac{15}{24}$, $\frac{2}{3} = \frac{16}{24}$, and $\frac{3}{4} = \frac{18}{24}$. So $\frac{5}{8} < \frac{2}{3} < \frac{3}{4}$.
2. **Devon learned the most. Rosa learned the least.** Compare $\frac{7}{10}$, $\frac{3}{5}$, and $\frac{5}{6}$. Since $\frac{3}{5} < \frac{7}{10} < \frac{5}{6}$, Devon is most and Rosa is least.

CHALLENGE

$\frac{5}{12} < \frac{1}{2} < \frac{7}{12}$. Since $\frac{1}{2} = \frac{6}{12}$, $\frac{5}{12}$ is less than $\frac{1}{2}$ and $\frac{7}{12}$ is greater than $\frac{1}{2}$.

Accept comparison symbols or fraction words when they show the correct relationship. Accept correct equivalent-fraction, common-denominator, benchmark, or number-line reasoning.