

Fraction Lineup

Compare fractions and place them in order.

GRADE 3 • MA.3.FR.2.1

MA.3.FR.2.1 "Plot, order and compare fractional numbers with the same numerator or the same denominator."

NAME _____

DATE _____

COMPARE BY PARTS

When fractions have the same denominator, the fraction with the larger numerator is greater. When fractions have the same numerator, the fraction with the smaller denominator is greater because the pieces are larger. On a number line, fractions increase as you move right.

WORKED EXAMPLE

Compare $\frac{5}{8}$ and $\frac{5}{6}$. Use $<$, $>$, or $=$.

1. Both fractions have numerator 5.
2. Sixths are larger pieces than eighths.
3. With the same number of pieces, $\frac{5}{6}$ is greater.

Answer: $\frac{5}{8} < \frac{5}{6}$

PRACTICE 6 problems

1 Compare: $\frac{2}{7}$ ____ $\frac{4}{7}$

ANSWER _____

2 Compare: $\frac{3}{4}$ ____ $\frac{3}{10}$

ANSWER _____

3 Write from least to greatest: $\frac{1}{9}$, $\frac{7}{9}$, $\frac{4}{9}$

ANSWER _____

4 A number line from 0 to 1 is divided into 10 equal parts. Plot $\frac{2}{10}$, $\frac{4}{10}$, and $\frac{7}{10}$. Then write them from left to right.

ANSWER _____

5 Circle the greatest fraction: $\frac{1}{4}$, $\frac{1}{7}$, $\frac{1}{3}$

ANSWER _____

6 Write from least to greatest: $\frac{2}{12}$, $\frac{2}{4}$, $\frac{2}{7}$

ANSWER _____

APPLY IT Show your work

- 1** Ava and Eli each color an identical game map. Ava colors $\frac{7}{12}$ of her map. Eli colors $\frac{4}{12}$ of his map. Who colors more?

WORK SPACE

ANSWER _____

- 2** Zuri and Theo build identical LEGO sets. Zuri finishes $\frac{2}{3}$ of her set. Theo finishes $\frac{2}{9}$ of his set. Who has finished more?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robot has two battery bars. One shows $\frac{1}{12}$ full, and the other shows $\frac{1}{4}$ full. Which battery is fuller? Explain how the denominator helps you decide.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Compare: $2/7$ ____ $4/7$	$2/7 < 4/7$
2	Compare: $3/4$ ____ $3/10$	$3/4 > 3/10$
3	Write from least to greatest: $1/9$, $7/9$, $4/9$	$1/9$, $4/9$, $7/9$
4	A number line from 0 to 1 is divided into 10 equal parts. Plot $2/10$, $4/10$, and $7/10$. Then write them from left to right.	$2/10$, $4/10$, $7/10$
5	Circle the greatest fraction: $1/4$, $1/7$, $1/3$	$1/3$
6	Write from least to greatest: $2/12$, $2/4$, $2/7$	$2/12$, $2/7$, $2/4$

PART 2 • APPLY IT

1. **Ava colors more.** The denominators are the same, so compare the numerators. Since 7 is greater than 4, $7/12 > 4/12$.
2. **Zuri has finished more.** The numerators are the same. Thirds are larger pieces than ninths, so $2/3 > 2/9$.

CHALLENGE

The $1/4$ -full battery is fuller. With the same numerator, fourths are larger pieces than twelfths, so $1/4 > 1/12$.

Accept correct inequality symbols and fraction orders written with commas or arrows. For the challenge, accept any explanation that states that a smaller denominator means larger equal parts when numerators are the same.