Mathematics

## Lesson 16: Compare Fractions with the Same Numerator

- Let's compare two fractions with the same numerator.


## Warm-up: True or False: Unit Fractions

Decide whether each statement is true or false. Be prepared to explain your reasoning.

- $\frac{1}{2}>\frac{1}{4}$
- $\frac{1}{4}>\frac{1}{3}$
- $\frac{1}{6}>\frac{1}{8}$


## 16.1: Five Parts of Something

1. Priya says that $\frac{5}{6}$ is greater than $\frac{5}{8}$.

Tyler says that $\frac{5}{8}$ is greater than $\frac{5}{6}$.

Who do you agree with? Show your thinking using diagrams or number lines.
2. For each pair of fractions, which fraction do you think is greater?
a. $\frac{5}{3}$ or $\frac{5}{4}$
b. $\frac{5}{8}$ or $\frac{5}{2}$
c. $\frac{5}{6}$ or $\frac{5}{4}$

3. Locate and label each fraction on a number line: $\frac{5}{2}, \frac{5}{3}, \frac{5}{4}, \frac{5}{6}, \frac{5}{8}$.


What do you notice about the points? Make 1-2 observations.

## 16.2: Fractions with the Same Numerator

1. For each pair of fractions, circle the fraction that is greater. Explain or show your reasoning.
a. $\frac{1}{4}$ and $\frac{1}{3}$
b. $\frac{3}{4}$ and $\frac{3}{8}$
c. $\frac{5}{3}$ and $\frac{5}{6}$
d. $\frac{9}{8}$ and $\frac{9}{6}$
2. Use the symbols > or < to make each statement true. Be prepared to explain your reasoning.
a. $\frac{2}{2} \quad \frac{2}{6}$
b. $\frac{4}{3} \quad \frac{4}{8}$
c. $\frac{8}{8}$
d. $\frac{5}{4}$ $\qquad$ $\frac{5}{3}$
3. Write in the missing denominator of the fraction to make each statement true. Be prepared to explain your reasoning.
a. $\frac{1}{3}<\xrightarrow{1}$
b. $\frac{6}{4}>\underline{6}$
c. $\frac{4}{4}<\frac{4}{}$
d. $\frac{2}{6}<\frac{2}{}$
