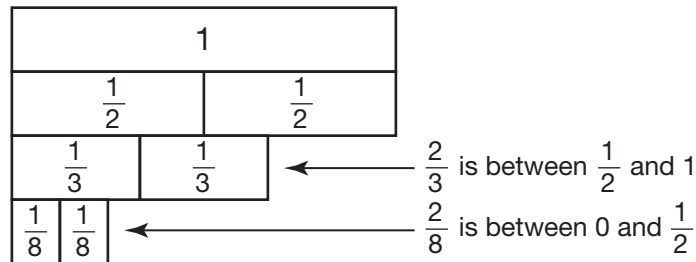# Comparing Fractions Using Benchmarks

In Ms. Adams' class, $\frac{2}{3}$ of students are wearing red and $\frac{2}{8}$ of students are wearing blue. She wants to know if more students are wearing red or blue.

1	
$\frac{1}{2}$	$\frac{1}{2}$

$\frac{1}{3}$ $\frac{1}{3}$ ← $\frac{2}{3}$ is between $\frac{1}{2}$ and 1

$\frac{1}{8}$ $\frac{1}{8}$ ← $\frac{2}{8}$ is between 0 and $\frac{1}{2}$

Ms. Adams can compare each fraction to the benchmark numbers 0, $\frac{1}{2}$, and 1.

$\frac{2}{3}$ is between $\frac{1}{2}$ and 1. $\frac{2}{8}$ is between 0 and $\frac{1}{2}$. So, $\frac{2}{8}$ is less than $\frac{2}{3}$.

More students in Ms. Adams' class are wearing red.

Mina, Bobby, and Julia each have the same number of pencils. $\frac{2}{6}$ of Mina's pencils are red, $\frac{2}{3}$ of Bobby's pencils are red, and $\frac{2}{4}$ of Julia's pencils are red.

1	
$\frac{1}{2}$	$\frac{1}{2}$

$\frac{1}{3}$ $\frac{1}{3}$

$\frac{1}{4}$ $\frac{1}{4}$

$\frac{1}{6}$ $\frac{1}{6}$
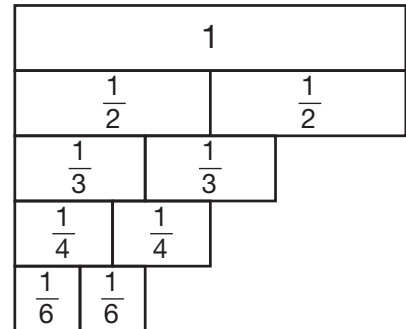
1. Who has more red pencils, Julia or Bobby?

_____

2. Who has more red pencils, Mina or Julia?

_____

3. Reason Which student has the most red pencils? Explain.

_____

_____

_____