Name _____

Compare Fractions

I Can use a number line to compare fractions.

Florida's B.E.S.T.

- **Fractions** 4.FR.1.4
- **Mathematical Thinking & Reasoning** MTR.2.1, MTR.3.1, MTR.4.1, MTR.5.1, MTR.6.1

UNLOCK the Problem Real World

Every year, Jace's school has a fair. This year, $\frac{3}{8}$ of the booths had face painting and $\frac{1}{4}$ of the booths had sand art. Were there more booths with face painting or sand art?

Compare $\frac{3}{8}$ and $\frac{1}{4}$.

One Way Find a common denominator.

When two fractions have the same denominator, they have equal-sized parts. You can compare the number of parts.

THINK

Think: 8 is a multiple of both 4 and 8. Use 8 as a common denominator.

$$\frac{1}{4} = \frac{1 \times \square}{4 \times \square} = \frac{\square}{8}$$

$\frac{3}{8}$ already has 8 as a denominator.

MODEL AND RECORD

Shade the model. Then compare.

$\frac{3}{8}$ ◯ $\frac{2}{8}$

Another Way Use a number line.

Plot the fractions on a number line. The fraction that is farther right is greater.

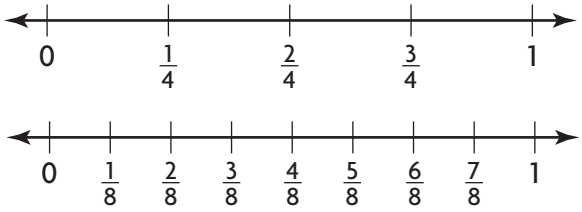
THINK

Use benchmarks to plot the fractions.

Think:

$\frac{3}{8}$ is more than $\frac{1}{4}$ and less than $\frac{1}{2}$.

MODEL AND RECORD



$\frac{3}{8}$ ◯ $\frac{1}{4}$

Since $\frac{3}{8}$ ◯ $\frac{1}{4}$, there were more booths with _____.

Math Talk

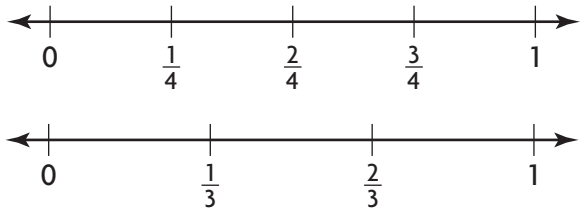
MTR 6.1 Assess the reasonableness of solutions.

Why can you not use $\frac{1}{2}$ as a benchmark to compare $\frac{3}{8}$ and $\frac{1}{4}$?

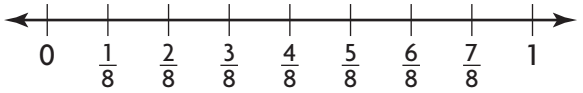
Go Online For more help

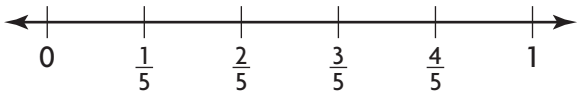
Try This! **Plot the numbers on the number line. Compare the fractions. Explain your reasoning.**

A $\frac{3}{4} \bigcirc \frac{1}{3}$

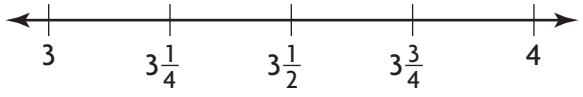


B $\frac{3}{5} \bigcirc \frac{3}{8}$

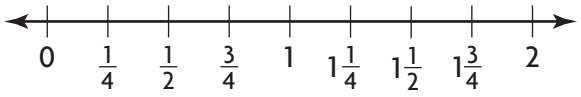




C $3\frac{3}{4} \bigcirc 3\frac{7}{8}$



D $\frac{3}{2} \bigcirc \frac{5}{4}$



1. Which would you use to compare $\frac{11}{12}$ and $\frac{5}{6}$, a common numerator or a common denominator? Explain.