

LESSON
6-3**Using Ratios and Rates to Solve Problems****Reteach**

You can write a ratio and make a list of equivalent ratios to compare ratios.

Find out who uses more detergent.

Terri's recipe for soap bubble liquid uses 1 cup of dishwashing detergent to 4 cups of water.

Torri's recipe for soap bubble liquid uses 1 cup of dishwashing detergent to 12 cups of water (plus some glycerin drops).

Terri's ratio of detergent to water: 1 to 4 or $\frac{1}{4}$

Torri's ratio of detergent to water: 1 to 12 or $\frac{1}{12}$

List of fractions equivalent to $\frac{1}{4}$: $\frac{1}{4}$, $\frac{2}{8}$, $\frac{3}{12}$, $\frac{4}{16}$, $\frac{5}{20}$...

List of fractions equivalent to $\frac{1}{12}$: $\frac{1}{12}$, $\frac{2}{24}$, $\frac{3}{36}$, $\frac{4}{48}$, $\frac{5}{60}$...

You can compare $\frac{3}{12}$ to $\frac{1}{12}$, $\frac{3}{12} > \frac{1}{12}$.

Terri uses much more detergent.

Use the list to compare the ratios. Circle ratios with the same denominator and compare.

1. $\frac{2}{3}$ and $\frac{3}{4}$

2. $\frac{4}{5}$ and $\frac{3}{7}$

3. Jack's recipe for oatmeal uses 3 cups of oats to 5 cups of water. Evan's recipe uses 4 cups of oats to 6 cups of water. Thicker oatmeal has a greater ratio of oats to water. Compare the ratios of oats to water to see who makes the thicker oatmeal. Show your work.
