Compare Decimals

Name: _____

Prerequisite: Compare Fractions

Study the example showing ways to compare fractions. Then solve problems 1–6.

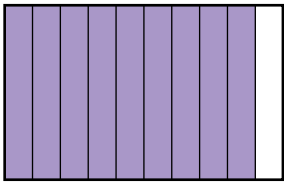
Example

Compare $\frac{9}{10}$ and $\frac{5}{10}$.

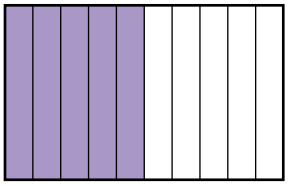
Use models.

$\frac{9}{10} > \frac{5}{10}$

The model shows $\frac{9}{10}$.

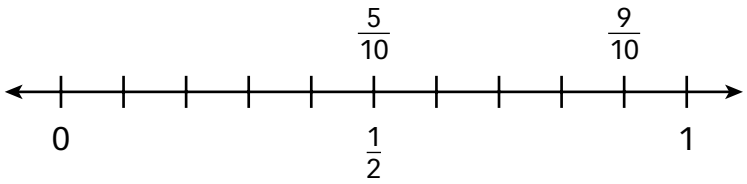


The modelshows $\frac{5}{10}$.



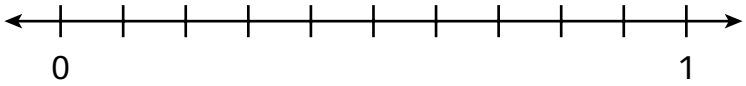
Use a number line and the fraction $\frac{1}{2}$ as a benchmark.

$\frac{9}{10} > \frac{5}{10}$



$\frac{9}{10} > \frac{1}{2}$ and $\frac{5}{10} = \frac{1}{2}$

1 Label $\frac{2}{10}$ and $\frac{6}{10}$ on the number line below.
Write a symbol to compare the two fractions. $\frac{2}{10}$ ____ $\frac{6}{10}$



2 Look at problem 1. Explain how to use the fraction $\frac{1}{2}$ as a benchmark to compare $\frac{2}{10}$ and $\frac{6}{10}$.

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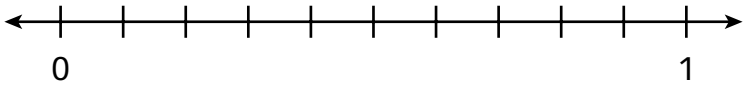
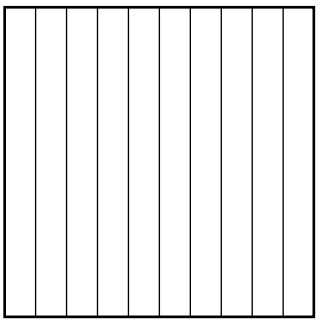
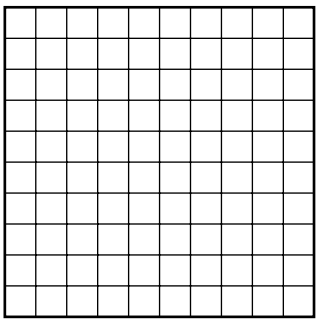
3 Label $\frac{10}{10}$ and $\frac{8}{10}$ on the number line below.
Write a symbol to compare the two fractions. $\frac{10}{10}$ ____ $\frac{8}{10}$



Solve.

4 Shade and label the models below to show $\frac{3}{10}$ and $\frac{3}{100}$.
Write a symbol to compare the fractions. $\frac{3}{10}$ ____ $\frac{3}{100}$





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5 Use the symbols $<$, $>$, and $=$ to compare the fractions.

a. $\frac{5}{10}$ ____ $\frac{50}{100}$

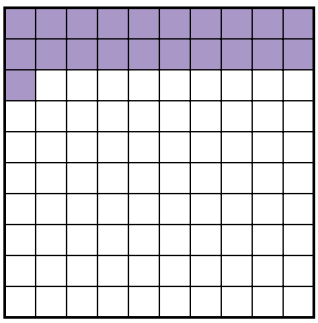
b. $\frac{4}{10}$ ____ $\frac{4}{100}$

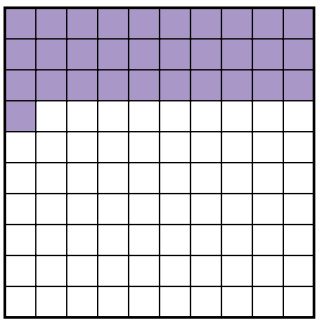
c. $\frac{11}{10}$ ____ $\frac{12}{10}$

d. $\frac{62}{100}$ ____ $\frac{6}{10}$

e. $\frac{9}{100}$ ____ $\frac{9}{10}$

6 Write the fraction that each model shows. Explain which fraction is greater.





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