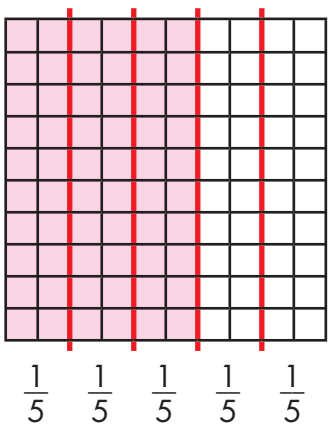
Comparing and Ordering Fractions

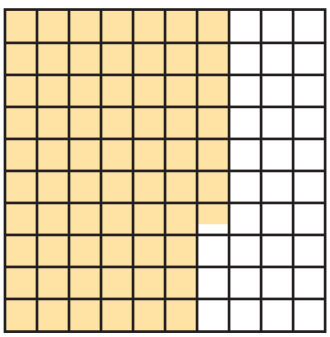
Which is larger, $\frac{3}{5}$ or $\frac{2}{3}$?

Felix used the percent equivalents for these fractions to compare them.

Felix's solution



I know that $\frac{1}{5} = 20\%$ because $5 \times 20 = 100$. So, $\frac{3}{5} = 60\%$.



I know that $\frac{1}{3}$ of 100 $= 30 + 3 + \frac{1}{3}$ or $33\frac{1}{3}$. So, $\frac{2}{3}$ of 100 is double that, $60 + 6 + \frac{2}{3}$ or $66\frac{2}{3}\%$.

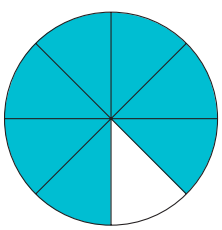
$\frac{2}{3}$ is larger than $\frac{3}{5}$.

$\frac{2}{3} > \frac{3}{5}$

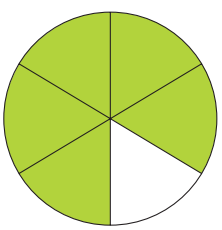
Alicia and Rachel each got a pizza for lunch. Both pizzas were the same size. Alicia cut her pizza into 8 equal pieces and ate 7 pieces. Rachel cut her pizza into 6 equal pieces and ate 5 pieces. Who ate more pizza?

Stuart compared the amount of pizza left.

Stuart's solution



Alicia has $\frac{1}{8}$ left.



Rachel has $\frac{1}{6}$ left.

Because $\frac{1}{8}$ is smaller than $\frac{1}{6}$, Alicia ate more than Rachel did. $\frac{7}{8} > \frac{5}{6}$

Comparing and Ordering Fractions (page 2 of 2)

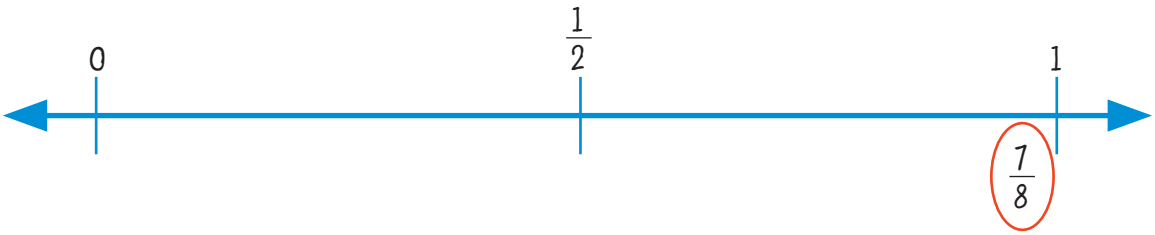
What is the order of these fractions from least to greatest?

$\frac{7}{8}, \frac{7}{12}, \frac{4}{10}$

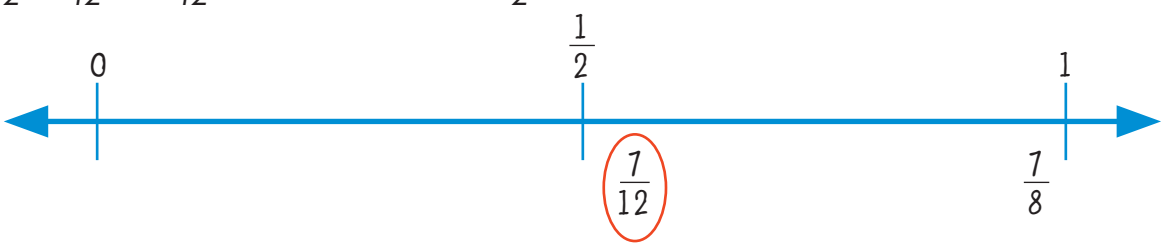
Hana used what she knew about $\frac{1}{2}$ and 1 to put the fractions in order.

Hana's solution

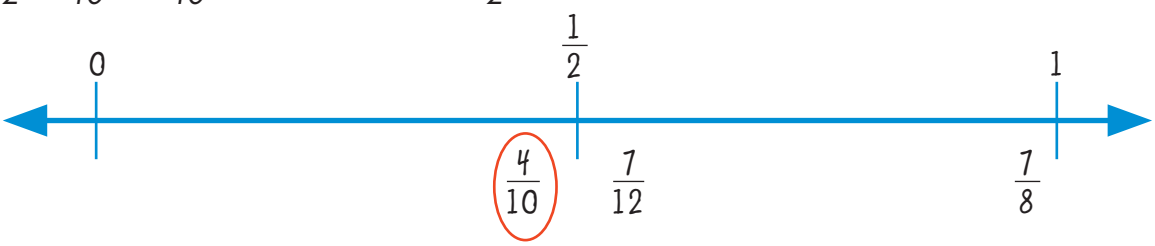
$\frac{7}{8}$ is the largest. It is close to 1.



$\frac{1}{2} = \frac{6}{12}$, so $\frac{7}{12}$ is a little more than $\frac{1}{2}$.



$\frac{1}{2} = \frac{5}{10}$, so $\frac{4}{10}$ is a little less than $\frac{1}{2}$.



So, from least to greatest, the fractions are $\frac{4}{10}, \frac{7}{12}, \frac{7}{8}$.

Which is larger, $\frac{3}{4}$ or $\frac{4}{5}$?