3.NF.3, 3.NF.3d

MY Homework

Lesson 8

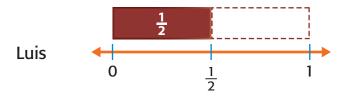
Compare Fractions

Homework Helper Need help? ConnectED.mcgraw-hill.com

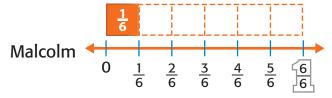


Luis and Malcolm are both on the tennis team. Luis has won $\frac{1}{2}$ of his matches. Malcolm has won $\frac{1}{6}$ of his matches. They both played the same number of matches. Who has won the greater fraction of matches?

Compare $\frac{1}{2}$ and $\frac{1}{6}$.



The smaller denominator of 2 means fewer, but larger parts.



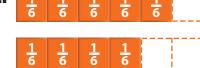
The larger denominator of 6 means more, but smaller parts.

The models show that $\frac{1}{2}$ has a greater size than $\frac{1}{6}$. So, $\frac{1}{2} > \frac{1}{6}$. Luis won a greater fraction of matches.

Practice

Use the models to compare. Use >, <, or =.

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



$$\frac{1}{3}$$
 $<$ $\frac{1}{2}$

$$\frac{5}{6}$$
 \rightarrow $\frac{4}{6}$

Use the models to compare. Use >, <, or =.





$$\frac{7}{8}$$
 $>$ $\frac{3}{8}$



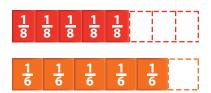


$$\frac{2}{3} = \frac{4}{6}$$

Real Work

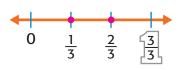
Problem Solving

5. PRACTICE Justify Conclusions Harvey practiced the piano for $\frac{5}{8}$ of an hour. Annika practiced the piano for $\frac{5}{6}$ of an hour. Use the models to determine who practiced the piano for a longer period of time.



Annika practiced the piano longer.

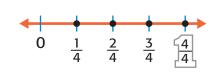
6. PRACTICE Use Math Tools The average housecat sleeps about $\frac{2}{3}$ of a day. Most people sleep about $\frac{1}{3}$ of the day. Do housecats or people sleep for a greater fraction of the day? Graph both fractions on the number line to compare.



Housecats sleep for a greater fraction of the day.

Test Practice

7. The number line shows which of the following fractions is less than $\frac{2}{4}$?



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

 $\mathbb{B}\frac{2}{4}$

① $\frac{4}{4}$