

# MY Homework

## Lesson 8

### Compare Fractions

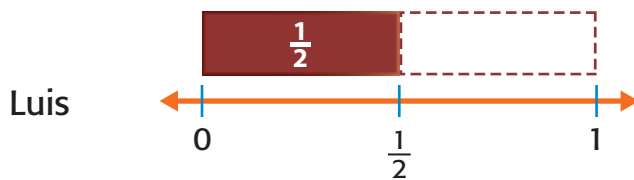
## Homework Helper



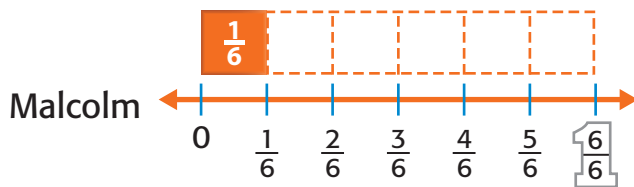
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Luis and Malcolm are both on the tennis team. Luis has won  $\frac{1}{2}$  of his matches. Malcolm has won  $\frac{1}{6}$  of his matches. They both played the same number of matches. Who has won the greater fraction of matches?

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



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



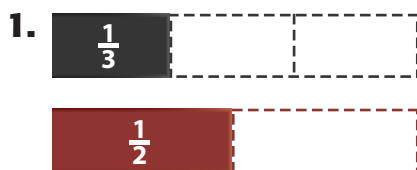
The larger denominator of 6 means more, but smaller parts.

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  $=$ .

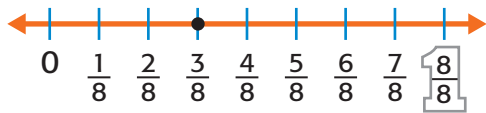
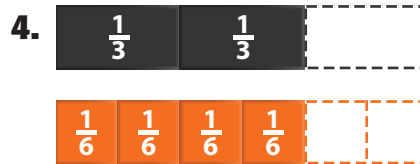
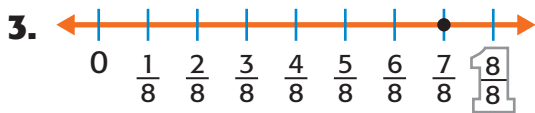


$$\frac{1}{3} \bigcirc \frac{1}{2}$$



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

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



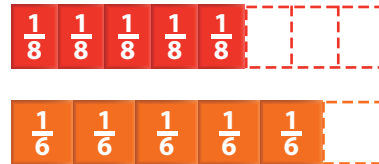
$$\frac{7}{8} \bigcirc \frac{3}{8}$$

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

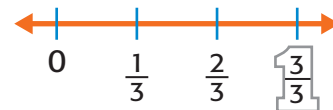


## Problem Solving

5. **Mathematical PRACTICE 3** **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.



6. **Mathematical PRACTICE 5** **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.



## Test Practice

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

- (A)  $\frac{1}{4}$                       (C)  $\frac{3}{4}$   
 (B)  $\frac{2}{4}$                       (D)  $\frac{4}{4}$

