Name .....

MY Homework

Lesson 3
Hands On: Model Equivalent Fractions

Homework Helper

eHelp

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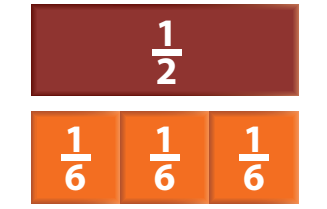
Determine whether $\frac{1}{2}$ is equivalent to $\frac{3}{6}$.

One Way **Use fraction tiles.**

1 **Model $\frac{1}{2}$.**

2 **Model $\frac{3}{6}$.**

Line up three $\frac{1}{6}$-fraction tiles below the $\frac{1}{2}$-fraction tile.



It takes three $\frac{1}{6}$-tiles, so the fraction is $\frac{3}{6}$.

Since they are the same length, the fractions are equivalent.

So, $\frac{1}{2} = \frac{3}{6}$.

Another Way **Use number lines.**

1 Divide the first number line into halves.

2 Divide the second number line into sixths.

3 Count the number of sixths that are in one half.

The number lines show that $\frac{1}{2}$ and $\frac{3}{6}$ are at the same point.

So, they are equivalent fractions.

Practice

Recognize whether the fractions are equivalent.
Write *yes* or *no*. Use fraction tiles or number lines.

1. $\frac{3}{5}$ and $\frac{6}{8}$ _____

2. $\frac{4}{5}$ and $\frac{5}{6}$ _____

3. $\frac{2}{4}$ and $\frac{6}{12}$ _____

4. $\frac{2}{3}$ and $\frac{4}{6}$ _____

5. $\frac{8}{12}$ and $\frac{4}{6}$ _____

6. $\frac{5}{6}$ and $\frac{9}{10}$ _____

Generate two equivalent fractions for each fraction.
Use fraction tiles or number lines.

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

8. $\frac{8}{12}$ _____

9. $\frac{3}{4}$ _____

Problem Solving

10. Mathematical PRACTICE 3 **Justify Conclusions** Francie lives $\frac{1}{5}$ mile from the school. Jake lives $\frac{2}{10}$ mile from the school. Do they live the same distance from the school? Explain.

_____

_____

Vocabulary Check

Draw a line to match the vocabulary term with its example.

11. numerator

12. denominator

13. equivalent fractions

- $\frac{6}{10}$ and $\frac{3}{5}$
- the number 1 in $\frac{1}{4}$
- the number 4 in $\frac{1}{4}$