

MY Homework

Lesson 8

Hands On: Model Fractions and Multiplication

Homework Helper



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Write $\frac{3}{6}$ as a multiple of a unit fraction.

Model $\frac{3}{6}$ using fraction tiles.



There are 3 of the $\frac{1}{6}$ -tiles.

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

Helpful Hint

$\frac{3}{6}$ is a multiple of $\frac{1}{6}$ because the product of 3 and $\frac{1}{6}$ is $\frac{3}{6}$.

Use an equation to write $4 \times \frac{2}{3}$ as a multiple of a unit fraction.

Use repeated addition to write $4 \times \frac{2}{3}$ as $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$.

$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3}$$

So, $\frac{8}{3}$ is a multiple of $\frac{2}{3}$. It is also a multiple of $\frac{1}{3}$.

$$\frac{8}{3} = 8 \times \frac{1}{3}$$

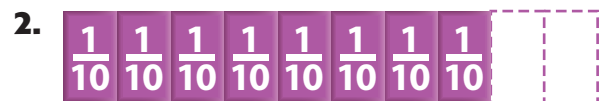
$$\text{So, } 4 \times \frac{2}{3} = 8 \times \frac{1}{3}.$$

Practice

Algebra Use an equation to write each fraction as a multiple of a unit fraction.



$$\frac{5}{6} \underline{\hspace{2cm}}$$



$$\frac{8}{10} \underline{\hspace{2cm}}$$

Algebra Use an equation to write each fraction or product as a multiple of a unit fraction.

3. $\frac{3}{8}$ _____

4. $\frac{7}{12}$ _____

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

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

7. $3 \times \frac{4}{5}$ _____


8. $5 \times \frac{2}{5}$ _____

9. $8 \times \frac{6}{10}$ _____

10. $7 \times \frac{8}{12}$ _____



Problem Solving

11. **Mathematical PRACTICE**  **Model Math** Marcia has one cup of tea each day for 7 days. She puts $\frac{2}{3}$ tablespoons of honey in each cup of tea. Write an equation that represents $7 \times \frac{2}{3}$ as a multiple of a unit fraction.

12. Sam buys 4 tropical fish. Each fish is $\frac{5}{8}$ of an inch long. Write an equation that represents $4 \times \frac{5}{8}$ as a multiple of a unit fraction.
