$\qquad$ Period: $\qquad$ Date: $\qquad$
Dividing Fractions Guide Notes
Math 6

Dividing by a fraction is the same as multiplying by its reciprocal.
To divide fractions take the reciprocal (invert the fraction) of the divisor and multiply the dividend.

## Division rule of two fractions

$\frac{a}{b} \div \frac{c}{d}=\frac{a}{b} * \frac{d}{c}=\frac{a * d}{b * c}$

Example: How many units of $\frac{2}{5}$ can you see in $\frac{4}{5}$ ?

$\frac{4}{5} \div \frac{2}{5}=\frac{4}{5} * \frac{5}{2}=\frac{4 * 5}{5 * 2}=\frac{4}{2}=2$ units
$\qquad$ Period: $\qquad$ Date: $\qquad$

## Dividing Fractions Guide Notes

Sample Problem 1: Draw a model to solve.
a. How many units of $\frac{1}{4}$ can you see in $\frac{3}{4}$ ?
b. How many units of $\frac{1}{8}$ can you see in $\frac{7}{8}$ ?
$\qquad$ Period: $\qquad$ Date: $\qquad$

## Dividing Fractions Guide Notes

Sample Problem 2: Find each quotient.
a. $\frac{2}{3} \div \frac{1}{2}=$
b. $\frac{1}{4} \div \frac{2}{4}=$
c. $\frac{1}{3} \div \frac{2}{9}=$
d. $\frac{1}{2} \div \frac{3}{4}=$

Sample problem 3: Solve each problem.
a. Diana has $\frac{1}{3}$ of a bag of dog food. Her dog eats $\frac{1}{6}$ of a bag per week. How many weeks will the food last?
b. How many halves are there in six-fourth?

