Name:

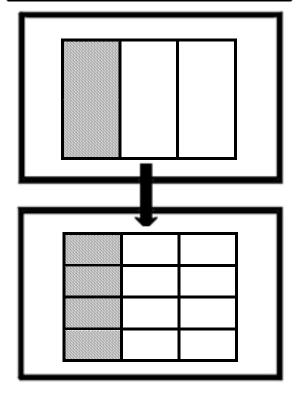
Student Resource Page

## **Dividing Fractions**

NF.7 Divide fraction by a whole number, whole number by a fraction, and solve real world problems.

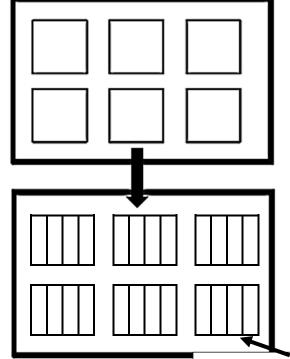
Dividing a Fraction by a Whole Number

$$\frac{1}{3} \div 4 = \frac{1}{12}$$



Dividing a Whole Number by a Fraction

$$6 \div \frac{1}{4} = 24$$



How many are there altogether?

Strategy:  $\frac{1}{6} \div 2 = ?$ 

$$\frac{1}{6} \div \frac{2}{1} = ?$$

Keep Switch Fil

$$\frac{1}{6} \quad X \quad \frac{1}{2} = \left(\frac{1}{12}\right)$$

Strategy:  $3 \div \frac{1}{7} = ?$ 

$$\frac{3}{1} \div \frac{1}{7} = ?$$

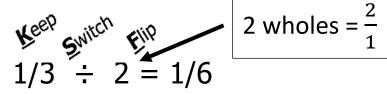
Keep Switch Flip

$$\frac{3}{1} \quad X \qquad \frac{7}{1} = \frac{21}{1} = \boxed{21}$$

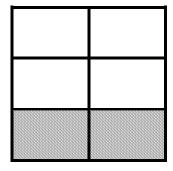
## **Example of dividing a fraction by a whole number:**

A popcorn store donates its boxes of popcorn for use as prizes at a team competition. How much popcorn does each team member get if a two-person team shares a 1/3 pound box?

## **Strategy for equation:**



2 wholes = 
$$\frac{2}{1}$$



$$1/3 \times 1/2 = 1/6$$

**Answer:** Each team member gets 1/6-pound box of popcorn.

## **Example of dividing a whole number by a fraction:**

How many 1/4 cup servings are in 3 cups of chocolate?

$$3 \div 1/4 = 12$$







=12



**Answer:** There are 12, 1/4 cup servings in 3 cups of chocolate.