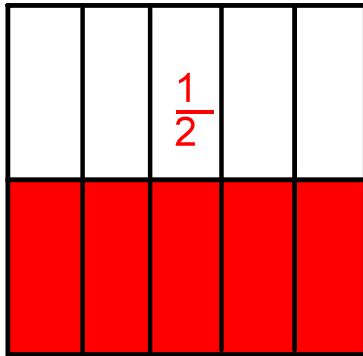


Modeling Fraction Division

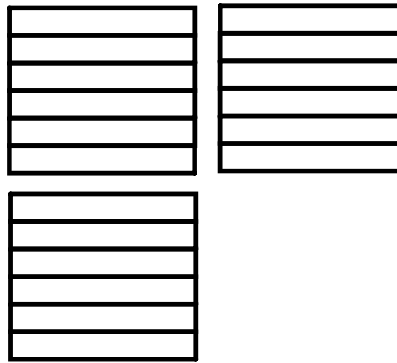
Unit Fractions and Whole Numbers

$$\frac{1}{2} \div 5 = \frac{1}{10}$$



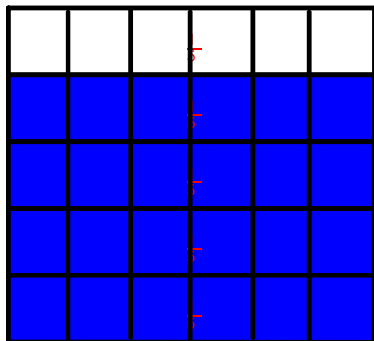
The value of each piece is $\frac{1}{10}$.

$$3 \div \frac{1}{6} = 18$$



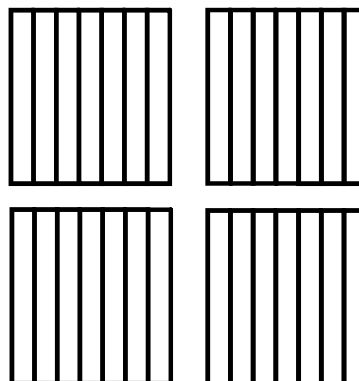
There are 18 sixths in 3.

$$\frac{1}{5} \div 6 = \frac{1}{30}$$



The value of each piece is $\frac{1}{30}$.

$$4 \div \frac{1}{7} = 28$$



There are 28 sevenths in 4.

Using the Algorithm for Dividing with Fractions Unit Fractions and Whole Numbers

1. **Keep** the dividend. (**Same**)
2. **Change** the operation to multiplication. (**Inverse**)
3. **Flip** the divisor. (**Reciprocal**)
4. **Multiply**

When you have a whole number, make it an improper fraction with a denominator of 1.

$$\frac{1}{3} \quad \div \quad \frac{7}{1}$$

1.) **Same** (Keep) 2.) **Inverse** (Change) 3.) **Reciprocal** (Flip)

$$\frac{1}{3} \quad \times \quad \frac{1}{7}$$

4.) **Multiply**

$$\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$$