

# Guided Notes

## 4.7 Divide Fractions (6.NS.1)

### Rules:

**Words** To divide by a fraction, multiply by its reciprocal. Then, simplify, if needed.

**Example**  $\frac{5}{6} \div \frac{2}{3} = \frac{5}{6} \times \frac{3}{2}$

### Guided Practice:

1.)  $\frac{1}{4} \div \frac{1}{2}$

$$\frac{1}{4} \times \frac{2}{1} = \frac{1}{2}$$

$$\boxed{\frac{1}{2}}$$

2.)  $\frac{5}{6} \div \frac{2}{3}$

$$\frac{5}{6} \times \frac{3}{2} = \frac{5}{4}$$

$$\boxed{1\frac{1}{4}}$$

3.)  $\frac{1}{8} \div \frac{3}{1}$

$$\frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$$

$$\boxed{\frac{1}{24}}$$

- 4.) A neighborhood garden that is  $\frac{2}{3}$  of an acre is to be divided into 4 equal-size sections. Write and solve an equation to find the size of each section.

$$\frac{2}{3} \div 4 = \frac{2}{3} \times \frac{1}{4} = \frac{1}{6}$$

Each section will be  $\frac{1}{6}$  of an acre.

**Building on the Essential Question** - How is the process used to divide fractions similar to the process used to multiply fractions?

To divide a fraction, you multiply by the reciprocal.

**Rate Yourself** - How confident are you about dividing fractions? Check the box that applies.

