

# Reciprocals and Dividing with Mixed Numbers

Find the Reciprocal of the following fractions

a) $\frac{3}{4}$	b) $\frac{1}{6}$	c) 13
d) $1\frac{1}{2}$	e) $5\frac{4}{9}$	f) $20\frac{1}{8}$

Divide

1.  $1\frac{5}{9} \div \frac{8}{9}$

2.  $6\frac{3}{4} \div 3$

3.  $\frac{5}{6} \div 1\frac{1}{4}$

4.  $1\frac{1}{15} \div 1\frac{3}{5}$

5.  $2\frac{1}{2} \div 1\frac{3}{7}$

6.  $1\frac{2}{7} \div \frac{4}{7}$

# Reciprocals and Dividing with Mixed Numbers

Find the Reciprocal of the following fractions

a) $\frac{3}{4}$ $\frac{4}{3}$	b) $\frac{1}{6}$ $\frac{6}{1}$	c) 13 $\frac{1}{13}$
d) $1\frac{1}{2} = \frac{3}{2}$ $\frac{2}{3}$	e) $5\frac{4}{9} = \frac{49}{9}$ $\frac{9}{49}$	f) $20\frac{1}{8} = \frac{161}{8}$ $\frac{8}{161}$

Divide

$$1. \quad 1\frac{5}{9} \div \frac{8}{9}$$

$$\frac{14}{9} \div \frac{8}{9}$$

$$\frac{14}{9} \cdot \frac{9}{8} = \frac{7}{4} = \boxed{1\frac{3}{4}}$$

$$2. \quad 6\frac{3}{4} \div 3$$

$$\frac{27}{4} \div \frac{3}{1}$$

$$\frac{27}{4} \cdot \frac{1}{3} = \frac{9}{4} = \boxed{2\frac{1}{4}}$$

$$3. \quad \frac{5}{6} \div 1\frac{1}{4}$$

$$\frac{5}{6} \div \frac{5}{4}$$

$$\frac{5}{6} \cdot \frac{4}{5} = \boxed{\frac{2}{3}}$$

$$4. \quad 1\frac{1}{15} \div 1\frac{3}{5}$$

$$\frac{16}{15} \div \frac{8}{5}$$

$$\frac{16}{15} \cdot \frac{5}{8} = \boxed{\frac{2}{3}}$$

$$5. \quad 2\frac{1}{2} \div 1\frac{3}{7}$$

$$\frac{5}{2} \div \frac{10}{7}$$

$$\frac{5}{2} \cdot \frac{7}{10} = \frac{7}{4} = \boxed{1\frac{3}{4}}$$

$$6. \quad 1\frac{2}{7} \div \frac{4}{7}$$

$$\frac{9}{7} \div \frac{4}{7}$$

$$\frac{9}{7} \cdot \frac{7}{4} = \frac{9}{4} = \boxed{2\frac{1}{4}}$$