# **Finding the Reciprocal**

DIV 1

**Instructions:** Write the reciprocal of each fraction by switching the top and bottom numbers.

$$\frac{3}{8}$$
 reciprocal:  $\frac{8}{3}$ 

$$\frac{8}{12}$$
 reciprocal: —

$$\frac{1}{5}$$
 reciprocal: —

$$\frac{6}{15}$$
 reciprocal: —

$$\frac{3}{4}$$
 reciprocal: —

$$\frac{20}{35}$$
 reciprocal: —

$$\frac{2}{7}$$
 reciprocal: —

$$\frac{7}{11}$$
 reciprocal: —

$$\frac{8}{19}$$
 reciprocal: —

$$\frac{12}{32}$$
 reciprocal: —

**Instructions:** Multiply each fraction by its reciprocal to get a 'whole fraction' which is just 1.

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

$$\frac{4}{5} \times - = - = 1$$

$$\frac{4}{7} \times - = - = 1$$

$$\frac{5}{3} \times - = - = 1$$

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

$$\frac{1}{11} \times - = 1$$

$$\frac{6}{8} \times - = 1$$

$$\frac{7}{9} \times - = - = 1$$

$$\frac{2}{9} \times - = - = 1$$

$$\frac{3}{12} \times -- = -- = 1$$



## **Dividing Fractions (Guided Practice)**

DIV 2

**Instructions:** Solve these division problems by multiplying by the reciprocal. Use the guides to help you. You do not need to simplify your answers.

$$\frac{3}{4} \div \frac{2}{5}$$

$$\frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$$

$$\frac{5}{4} \div \frac{2}{3}$$

$$\frac{5}{4} \times --=$$

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

$$\frac{1}{7} \times --- =$$

$$\frac{8}{13} \div \frac{1}{2}$$

$$\frac{8}{13} \times --=$$

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

$$\frac{3}{5} \times \underline{\hspace{1cm}} =$$

$$\frac{4}{8} \div \frac{5}{1}$$

$$\frac{4}{8} \times ---=$$

$$\frac{5}{8} \div \frac{3}{4}$$

$$\frac{5}{8} \times \underline{\hspace{1cm}} =$$

$$\frac{1}{12} \div \frac{1}{12}$$

$$\frac{1}{12} \times --- =$$

$$\frac{7}{9} \div \frac{2}{3}$$

$$\frac{7}{9} \times \underline{\hspace{1cm}} =$$

$$\frac{1}{8} \div \frac{3}{16}$$

$$\frac{1}{8} \times \underline{\hspace{1cm}} =$$

$$\frac{5}{11} \div \frac{4}{7}$$

$$\frac{5}{11} \times --- =$$

$$\frac{9}{10} \div \frac{5}{6}$$

$$\frac{9}{10} \times --- =$$



# **Dividing Fractions (More Practice)**

DIV 3

Instructions: Solve these division problems by multiplying by the reciprocal. You do not need to simplify your answers.

$$\frac{1}{6} \div \frac{3}{7}$$

$$\frac{1}{6} \times \frac{7}{3} = \frac{7}{18}$$

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

$$\frac{5}{12} \div \frac{1}{4}$$

$$\frac{4}{11} \div \frac{5}{7}$$

$$\frac{4}{7} \div \frac{2}{3}$$

$$\frac{9}{2} \div \frac{5}{1}$$

$$\frac{6}{5} \div \frac{5}{3}$$

$$\frac{2}{7} \div \frac{7}{9}$$

$$\frac{1}{16} \div \frac{1}{6}$$

$$\frac{11}{12} \div \frac{2}{3}$$

$$\frac{3}{10} \div \frac{7}{8}$$

$$\frac{10}{8} \div \frac{8}{9}$$



## Dividing a Fraction by a Whole Number (and Vice-Versa)

DIV 4

**Instructions:** Solve these division problems. You do **not** need to simplify your answers in

$$\frac{3}{5} \div 2 = \frac{3}{5} \div \frac{2}{1}$$

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$

$$5 \div \frac{3}{8} =$$

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

$$10 \div \frac{9}{2} =$$

$$\frac{6}{7} \div 5 =$$

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

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

$$8 \div \frac{3}{4} =$$

$$9 \quad \frac{5}{12} \div 2 =$$

$$4 \div \frac{1}{10} =$$

### **Fractions Made From Fractions**

DIV 5

Instructions: Solve these fraction division problems. Some have guides to help you. You do **not** need to simplify your answers.

$$\frac{\frac{1}{2}}{\frac{5}{7}} = \frac{1}{2} \times \frac{7}{5} = \frac{7}{10}$$

$$\frac{2}{\frac{6}{7}} =$$

$$\frac{\frac{4}{7}}{\frac{1}{3}} = \frac{4}{7} \times \dots =$$

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

$$\frac{\frac{3}{8}}{\frac{5}{2}} = \frac{3}{8} \times \dots =$$

$$\frac{\frac{4}{10}}{\frac{3}{7}} =$$

$$\frac{\frac{5}{9}}{\frac{6}{9}} = \frac{5}{9} \times ---=$$

$$\frac{\frac{2}{9}}{\frac{4}{6}} =$$

$$\frac{\frac{1}{5}}{\frac{2}{11}} = \frac{1}{5} \times \dots =$$

$$\frac{9}{12} =$$

$$\frac{\frac{7}{12}}{\frac{4}{5}} = \frac{7}{12} \times --- =$$

$$\frac{\frac{6}{7}}{\frac{8}{9}} =$$