

# DIVIDING FRACTIONS

NAME: \_\_\_\_\_

## HELPFUL EXAMPLES

BEFORE DIVIDING, WE NEED TO LEARN HOW TO FIND THE **RECIPROCAL** OF A NUMBER.

A. THE RECIPROCAL OF  $\frac{3}{4}$  IS  $\frac{4}{3}$

TO FIND THE RECIPROCAL JUST FLIP THE FRACTION.

B. THE RECIPROCAL OF 5 NEED TO CHANGE 5 TO A FRACTION BEFORE FINDING THE RECIPROCAL.

$$5 = \frac{5}{1}$$

FLIP IT.

THE RECIPROCAL OF 5 IS  $\frac{1}{5}$

NOW YOUR TURN. FIND THE RECIPROCAL OF EACH NUMBER.

1.  $\frac{2}{5}$

2.  $\frac{1}{7}$

3. 9

4.  $\frac{7}{8}$

5. 3

6.  $\frac{4}{11}$

7.  $\frac{1}{2}$

## MORE HELPFUL EXAMPLES

TO DIVIDE BY A FRACTION, SWITCH IT TO MULTIPLICATION AND TAKE THE RECIPROCAL OF THE FRACTION.

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

DO YOU SEE HOW THE DIVISION WAS CHANGED TO MULTIPLICATION AND THE FRACTION WAS FLIPPED?

D.  $\frac{2}{3} \div 5 = \frac{2}{3} \div \frac{5}{1}$   
 $= \frac{2}{3} \times \frac{1}{5}$   
 $= \frac{2}{15}$

YOU **ONLY** TAKE THE RECIPROCAL OF THE FRACTION AFTER THE DIVISION SIGN.

NOW YOUR TURN. DIVIDE. DON'T FORGET TO SIMPLIFY.

8.  $\frac{5}{6} \div \frac{1}{6}$   
 $= \frac{5}{6} \times \frac{6}{1} =$

9.  $\frac{1}{2} \div 7$

10.  $\frac{3}{11} \div \frac{6}{11}$

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

12.  $3 \div \frac{2}{7}$

13.  $\frac{5}{12} \div \frac{1}{5}$

14.  $\frac{4}{9} \div 8$

15.  $\frac{8}{11} \div \frac{2}{3}$

16.  $\frac{1}{4} \div \frac{3}{8}$

17.  $\frac{6}{7} \div 12$

18.  $\frac{4}{5} \div \frac{2}{10}$

19.  $\frac{7}{12} \div \frac{1}{9}$