

DIVIDING FRACTIONS

ANSWERS

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. $\frac{2}{5}$ \rightarrow $\frac{5}{2}$ 2. $\frac{1}{7}$ 3. 9 4. $\frac{7}{8}$ 5. 3 6. $\frac{4}{11}$ 7. $\frac{1}{2}$

$\frac{5}{2}$ 7 $\frac{1}{9}$ $\frac{8}{7}$ $\frac{1}{3}$ $\frac{11}{4}$ 2

MORE HELPFUL EXAMPLES

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

C. $\frac{1}{2} \div \frac{3}{4}$ \rightarrow $\frac{1}{2} \times \frac{4}{3}$ DO YOU SEE HOW THE DIVISION WAS CHANGED TO MULTIPLICATION AND THE FRACTION WAS FLIPPED?

$= \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$ YOU **ONLY** TAKE THE RECIPROCAL OF THE FRACTION AFTER THE DIVISION SIGN.

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

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

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

$\frac{5}{6} \times \frac{6}{1} = 5$

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

$= \frac{1}{14}$

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

$= \frac{1}{2}$

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

$= 1\frac{7}{8}$

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

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

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

$= 2\frac{1}{12}$

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

$= \frac{1}{18}$

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

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

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

$= \frac{2}{3}$

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

$= \frac{1}{14}$

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

$= 4$

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

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