math Antics Worksheets

Name: _____

Date: _____

Finding the Reciprocal

F-DIV 1

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

1. $\frac{3}{8}$ reciprocal: $\frac{8}{3}$
2. $\frac{8}{12}$ reciprocal: ___
3. $\frac{1}{5}$ reciprocal: ___
4. $\frac{6}{15}$ reciprocal: ___
5. $\frac{3}{4}$ reciprocal: ___
6. $\frac{20}{35}$ reciprocal: ___
7. $\frac{2}{7}$ reciprocal: ___
8. $\frac{7}{11}$ reciprocal: ___
9. $\frac{8}{19}$ reciprocal: ___
10. $\frac{12}{32}$ reciprocal: ___

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

1. $\frac{2}{5} \times \frac{5}{2} = \frac{10}{10} = 1$
2. $\frac{4}{5} \times \_\_ = \_\_ = 1$
3. $\frac{4}{7} \times \_\_ = \_\_ = 1$
4. $\frac{5}{3} \times \_\_ = \_\_ = 1$
5. $\frac{3}{7} \times \_\_ = \_\_ = 1$
6. $\frac{1}{11} \times \_\_ = \_\_ = 1$
7. $\frac{6}{8} \times \_\_ = \_\_ = 1$
8. $\frac{7}{9} \times \_\_ = \_\_ = 1$
9. $\frac{2}{9} \times \_\_ = \_\_ = 1$
10. $\frac{3}{12} \times \_\_ = \_\_ = 1$

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Dividing Fractions (Guided Practice)

F-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.

1 $\frac{3}{4} \div \frac{2}{5}$

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

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

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

3 $\frac{1}{7} \div \frac{1}{4}$

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

4 $\frac{8}{13} \div \frac{1}{2}$

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

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

$\frac{3}{5} \times \frac{\quad}{\quad} =$

6 $\frac{4}{8} \div \frac{5}{1}$

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

7 $\frac{5}{8} \div \frac{3}{4}$

$\frac{5}{8} \times \frac{\quad}{\quad} =$

8 $\frac{1}{12} \div \frac{1}{12}$

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

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

$\frac{7}{9} \times \frac{\quad}{\quad} =$

10 $\frac{1}{8} \div \frac{3}{16}$

$\frac{1}{8} \times \frac{\quad}{\quad} =$

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

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

12 $\frac{9}{10} \div \frac{5}{6}$

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

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Dividing Fractions (More Practice)

F-DIV 3

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

F-DIV 4

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

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

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

2 $5 \div \frac{3}{8} =$

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

4 $10 \div \frac{9}{2} =$

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

6 $\frac{1}{4} \div 4 =$

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

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

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

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

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Fractions Made From Fractions

F-DIV 5

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

1 $\dfrac{\frac{1}{2}}{\frac{5}{7}} = \frac{1}{2} \times \frac{7}{5} = \frac{7}{10}$ (reciprocal)

2 $\dfrac{\frac{2}{5}}{\frac{6}{7}} =$

3 $\dfrac{\frac{4}{7}}{\frac{1}{3}} = \frac{4}{7} \times \_\_ =$

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

5 $\dfrac{\frac{3}{8}}{\frac{5}{2}} = \frac{3}{8} \times \_\_ =$

6 $\dfrac{\frac{4}{10}}{\frac{3}{7}} =$

7 $\dfrac{\frac{5}{9}}{\frac{6}{9}} = \frac{5}{9} \times \_\_ =$

8 $\dfrac{\frac{2}{9}}{\frac{4}{6}} =$

9 $\dfrac{\frac{1}{5}}{\frac{2}{11}} = \frac{1}{5} \times \_\_ =$

10 $\dfrac{\frac{9}{12}}{\frac{2}{3}} =$

11 $\dfrac{\frac{7}{12}}{\frac{4}{5}} = \frac{7}{12} \times \_\_ =$

12 $\dfrac{\frac{6}{7}}{\frac{8}{9}} =$