

## Dividing Fractions

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To divide a fraction by a mixed or whole number, change the mixed or whole number to an improper fraction. Invert and multiply.

**Find:**  $\frac{3}{4} \div 3$

**Find:**  $\frac{9}{10} \div 1\frac{1}{2}$

Change 3 to  $\frac{3}{1}$ . Invert and multiply.

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

Change  $1\frac{1}{2}$  to  $\frac{3}{2}$ . Invert and multiply. Simplify.

$$\frac{9}{10} \div 1\frac{1}{2} = \frac{9}{10} \div \frac{3}{2} = \frac{9}{10} \times \frac{2}{3} = \frac{3}{5}$$

**Divide.**

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

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

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

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

$\frac{5}{6} \div 2\frac{1}{2} =$

$\frac{5}{8} \div 10 =$

3.  $\frac{2}{3} \div 2 =$

$\frac{4}{9} \div 1\frac{1}{4} =$

$\frac{5}{6} \div 12 =$

4.  $\frac{7}{10} \div 3\frac{1}{2} =$

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

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

5.  $\frac{9}{12} \div 3 =$

$\frac{3}{14} \div 1\frac{1}{2} =$

$\frac{9}{16} \div 4 =$

6.  $\frac{11}{15} \div 11 =$

$\frac{3}{20} \div 6 =$

$\frac{7}{12} \div 7 =$

7.  $\frac{19}{25} \div 2\frac{1}{5} =$

$\frac{10}{21} \div 5 =$

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

8.  $\frac{13}{17} \div 7\frac{1}{2} =$

$\frac{22}{24} \div 2 =$

$\frac{5}{18} \div 3 =$

9.  $\frac{10}{13} \div 5 =$

$\frac{7}{11} \div 1\frac{3}{4} =$

$\frac{5}{11} \div 2 =$

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## Answer Key

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1.  $\frac{1}{7} \div \frac{7}{64} = \frac{2}{5}$

2.  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{16}$

3.  $\frac{1}{3} \div \frac{16}{45} = \frac{5}{72}$

4.  $\frac{1}{5} \div \frac{1}{8} = \frac{5}{54}$

5.  $\frac{1}{4} \div \frac{1}{7} = \frac{9}{64}$

6.  $\frac{1}{15} \div \frac{1}{40} = \frac{1}{12}$

7.  $\frac{19}{55} \div \frac{2}{21} = \frac{3}{28}$

8.  $\frac{26}{255} \div \frac{11}{24} = \frac{5}{54}$

9.  $\frac{2}{13} \div \frac{4}{11} = \frac{5}{22}$

