

	Fraction	Simple/Improper Fraction	Reciprocal
a	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{3}{2}$
b	$\frac{6}{7}$	$\frac{6}{7}$ ==	$\frac{7}{6}$
с	$2\frac{1}{5}$	$\frac{11}{5}$	$\frac{5}{11}$
d	$3\frac{1}{4}$	$\frac{13}{4}$	13
e	9	$\frac{9}{1}$	$\frac{1}{9}$
f	12	12	$\frac{1}{12}$

## The Rule for division of fractions is

To divide fractions	example
Change the "+" sign to "x" and	$\frac{a}{b} \div \frac{c}{d}$
<ul> <li>Invert the fraction to the right of the sign.</li> </ul>	-×-
4 Multiply the numerators.	$-\times \frac{d}{c}$
4 Multiply the denominators.	$\overset{\blacktriangleright}{=} \frac{a}{b} \times \frac{d}{c} = \frac{a \times d}{b \times c}$

Re-write your answer in its simplified or reduced form, if needed



Example 6

$$3\frac{3}{4} \div 1\frac{1}{8} = \frac{15}{4} \div \frac{9}{8} = \frac{15}{4} \times \frac{8}{9} = \frac{120}{36}$$
  
the above can be reduced and written as shown below  
$$12 \times 10 = 10 = 1$$

$$=\frac{12\times10}{12\times3}$$
  $=\frac{10}{3}$   $=3\frac{1}{3}$ 

To illustrate the above,

Look at the following example,

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

In this question it is required to divide a half in to, quarters, in other words we have to find out the number of quarters can be made out of a half.



Now try to answer questions in dividing fraction worksheet.