Dividing Fractions

\*\*Dividing by a number is the same as multiplying by its reciprocal!!\*\*

|  |
| --- |
| **Steps:** |
| 1. Rewrite any mixed numbers as improper fractions (if necessary)
 | *http://www.helpingwithmath.com/images/fra_ex14.gif*(No improper fractions in this problem!) |
| 1. Multiply by the reciprocal
 | http://www.helpingwithmath.com/images/fra_ex14.gif **=** |
| 1. Simplify your answer if needed.
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An example with mixed numbers:

\*\*Do not forget to change mixed numbers before you multiply by the reciprocal\*\*

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\*\* Remember that when you divide two numbers, you are finding out how many times the *divisor* fits *into* the *dividend*.



David’s lawn mower holds ¾ gallon of gas. If he has 1 ½ gallons of gas, how many times can he fill up his lawn mower?

**3**

**4**

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|  |
| --- |
| You Try! |
| $$\frac{5}{6}÷\frac{5}{12}$$ | $$\frac{9}{10}÷\frac{3}{5}$$ | $$2\frac{1}{4}÷\frac{1}{8}$$ |

So, how many ¾’s will fit inside 1 ½ ?

$1\frac{1}{2}$ ÷ $\frac{3}{4}$

$\frac{3}{2}$ ÷ $\frac{3}{4}$

$\frac{3}{2}$ x $\frac{4}{3}$

$\frac{12}{6}$ = 2

¾ fits inside 1 ½ *two* times. David can fill up his lawn mower twice.

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