

# Fraction Operations



## Homework

Complete the function machines. Write your answers in simplest form. Do not leave any improper fractions.

1. Rule: Add  $\frac{1}{2}$

Input	Output
$\frac{3}{2}$	$\frac{3}{2} + \frac{1}{2} =$
$\frac{2}{3}$	
$\frac{7}{10}$	
$\frac{1}{4}$	
$3\frac{1}{3}$	

2. Rule: Subtract  $\frac{1}{2}$

Input	Output
$\frac{7}{2}$	$\frac{7}{2} - \frac{1}{2} =$
$\frac{4}{5}$	
$\frac{9}{10}$	
$\frac{6}{7}$	
2	

3. Rule: Multiply by  $\frac{1}{2}$

Input	Output
$\frac{2}{3}$	$\frac{2}{3} \times \frac{1}{2} =$
$\frac{1}{4}$	
5	
$1\frac{1}{2}$	
$\frac{3}{8}$	

4. Rule: Divide by  $\frac{1}{2}$

Input	Output
12	$12 \div \frac{1}{2} =$
6	
3	
2	
1	

5. What is the difference between “divide 12 *in* half” and “divide 12 *by* a half”? Should the answer be larger or smaller than the original amount?