

## Simplifying Fractions 2

Look at the fraction below...

$\frac{4}{6}$  We can simplify or reduce this fraction to show it in its lowest terms or simplest form. First we must find the factors for each digit.

$\frac{4}{6}$  = 1, 2, 4                      Which number is a factor of each digit?  
          = 1, 2, 3, 6

$\frac{4}{6}$  = 1, 2, 4                      '2' is called a common factor as both 4 and 6  
          = 1, 2, 3, 6                      can be divided by it. If we do this, the  
             fraction will be seen in its simplest form.

$\frac{4}{6}$   $\div 2 = \underline{2}$                       So our new simplified fraction is  $\frac{2}{3}$   
           $\div 2 = 3$

Using this knowledge, complete the table below.

Starting Fraction	Factors	Greatest Common Factor	Calculation	Simplified Fraction
$\frac{4}{6}$	1, 2, 4 1, 2, 3, 6	2 2	$\frac{4}{6} \div 2 = 2$ $6 \div 2 = 3$	$\frac{2}{3}$
$\frac{18}{24}$				
$\frac{15}{30}$				
$\frac{32}{40}$				
$\frac{17}{34}$				
$\frac{18}{22}$				

## Simplifying Fractions 2 -ANSWERS

Starting Fraction	Factors	Greatest Common Factor	Calculation	Simplified Fraction
$\frac{4}{6}$	1, 2, 4 1, 2, 3, 6	2 2	$\frac{4}{6} \div 2 = \frac{2}{3}$	$\frac{2}{3}$
$\frac{18}{24}$	1, 2, 3, 6, 9, 18 1, 2, 3, 4, 6, 8, 12, 24	6 6	$18 \div 6 = 3$ $24 \div 6 = 4$	$\frac{3}{4}$
$\frac{15}{30}$	1, 5, 15 1, 2, 3, 5, 6, 10, 15, 30	15 15	$15 \div 15 = 1$ $30 \div 15 = 2$	$\frac{1}{2}$
$\frac{32}{40}$	1, 2, 4, 8, 16, 32 1, 2, 4, 5, 8, 10, 20, 40	8 8	$32 \div 8 = 4$ $40 \div 8 = 5$	$\frac{4}{5}$
$\frac{17}{34}$	1, 17 1, 2, 17, 34	17 17	$17 \div 17 = 1$ $34 \div 17 = 2$	$\frac{1}{2}$
$\frac{18}{22}$	1, 2, 3, 6, 9, 18 1, 2, 11, 22	2 2	$18 \div 2 = 9$ $22 \div 2 = 11$	$\frac{9}{11}$