

Mixed Fraction Sheet 1:

Objective 1: Adding, subtracting, multiplying and dividing fractions

Objective 2: Operations involving fractions and integers

Part 1:

$\frac{1}{3} + \frac{2}{9}$	$\frac{3}{5} + \frac{1}{4}$	$\frac{5}{6} - \frac{1}{2}$	$\frac{7}{8} - \frac{3}{7}$
$\frac{7}{9} \times \frac{2}{5}$	$\frac{3}{11} \times \frac{2}{5}$	$\frac{4}{9} \div \frac{2}{3}$	$\frac{5}{7} + \frac{2}{5}$
$\frac{1}{5} \times 3$	$\frac{3}{7} \div 2$	$\frac{5}{11} - \frac{2}{3}$	$\left(\frac{2}{9}\right)^2$
$\frac{2}{11} \div \frac{8}{3}$	$\frac{4}{9} + \frac{3}{5}$	$8 \div \frac{2}{3}$	$\left(\frac{2}{3}\right)^3$
$\frac{3}{17} + \frac{1}{2}$	$\frac{5}{13} \div \frac{25}{26}$	$\frac{5}{11} \times \frac{2}{3} \times \frac{7}{10}$	$\frac{1}{4} + \frac{1}{5} + \frac{2}{3} + \frac{1}{60}$

Part 2: BIDMAS and fractions [Brackets, Indices, Division, Multiplication, Addition, Subtraction]

$\frac{3}{5} + \frac{1}{2} \times \frac{2}{3}$	$\frac{1}{2} \times \frac{1}{3} - \frac{1}{21}$	$\left(\frac{1}{2} + \frac{1}{3}\right) \div \frac{3}{7}$
$\frac{2}{3} + \left(\frac{3}{5}\right)^2$	$\frac{1}{4} + \frac{2}{9} \div \frac{2}{7}$	$\frac{1}{2} + \left(\frac{1}{3} + \frac{2}{5}\right)^2$

Extension: Mixed questions

0.3×0.7	1.1^2	1.1^3	$\left(\frac{2}{3}\right)^{-1}$
------------------	---------	---------	---------------------------------

What is the reciprocal of the following:

8	$\frac{3}{7}$	0.2
---	---------------	-----

Write these times as decimals

3hrs and 15 minutes	2:06	5hrs and 20minutes
---------------------	------	--------------------

Objective 1: To be able to use mixed fractions in a range of calculations

Remember: When multiplying or dividing mixed numbers, convert them to top heavy fractions first

Part 1:

$3\frac{1}{2} + 4\frac{1}{3}$	$4\frac{1}{3} + 3\frac{2}{5}$	$5\frac{5}{7} - 2\frac{4}{21}$
$3\frac{1}{7} \times 2\frac{1}{3}$	$2\frac{1}{5} \times 2\frac{1}{3}$	$\left(2\frac{1}{3}\right)^2$
$5\frac{1}{3} - 2\frac{1}{5}$	$5\frac{3}{6} + \frac{1}{7}$	$3\frac{1}{3} - 1\frac{3}{5}$
$5\frac{1}{2} \div 3\frac{1}{3}$	$\left(2\frac{1}{2}\right)^3$	$5 \div 3\frac{1}{7}$

Part 2: Mixed fractions, BIDMAS and extension questions

$\frac{1}{3} \times \left(3\frac{1}{2} + 2\frac{2}{7}\right)$	$\frac{1}{4} \times \left(3\frac{1}{2}\right)^2$	$5\frac{1}{2} + 3\frac{1}{3} \times 2\frac{1}{5}$
$3\frac{1}{7} + 2\frac{1}{4} \div 5\frac{1}{2}$	$\left(1\frac{1}{2} + 3\frac{1}{3}\right)\left(3\frac{2}{7} - 2\frac{1}{6}\right)$	$\left(3\frac{1}{7}\right)^{-1}$
$\left(2\frac{7}{9}\right)^{\frac{1}{2}}$	$\left(3\frac{1}{3}\right)^{-2}$	$\left(3\frac{3}{8}\right)^{\frac{1}{3}}$