

Simplifying fractions

Write these fractions in their simplest form.

$\frac{8}{16} = \frac{1}{2}$	$\frac{3}{12} = \frac{1}{4}$
$\frac{6}{18} = \frac{1}{3}$	$\frac{2}{10} = \frac{1}{5}$
$\frac{10}{30} = \frac{1}{3}$	$\frac{10}{16} = \frac{5}{8}$
$\frac{12}{20} = \frac{3}{5}$	$\frac{14}{16} = \frac{7}{8}$
$\frac{36}{45} = \frac{4}{5}$	$\frac{42}{49} = \frac{6}{7}$
$\frac{115}{230} = \frac{1}{2}$	$\frac{14}{42} = \frac{1}{3}$

Converting fractions

Convert these fractions in between mixed number fractions and improper fractions. Can any of your mixed number answers be simplified?

Mixed number fractions	Improper fractions
$1\frac{2}{3}$	$\frac{5}{3}$
$1\frac{3}{5}$	$\frac{8}{5}$
$1\frac{5}{8}$	$\frac{13}{8}$
$3\frac{2}{4}$ or $3\frac{1}{2}$	$\frac{14}{4}$
$3\frac{3}{8}$	$\frac{27}{8}$
$6\frac{2}{5}$	$\frac{32}{5}$
$7\frac{6}{9}$ or $7\frac{2}{3}$	$\frac{69}{9}$

Adding and subtracting fractions

If you can, write your answers in the simplest form.

$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$	$\frac{1}{3} + \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2}$
$\frac{1}{2} + \frac{3}{8} = \frac{7}{8}$	$\frac{5}{16} + \frac{5}{8} = \frac{15}{16}$
$\frac{2}{3} + \frac{5}{6} = 1\frac{1}{2} \text{ or } 1\frac{3}{6}$	$\frac{5}{6} + \frac{7}{12} = 1\frac{5}{12}$
$\frac{1}{6} + \frac{1}{3} + \frac{5}{12} = \frac{11}{12}$	$\frac{3}{4} + \frac{1}{2} + \frac{5}{8} = 1\frac{7}{8}$
$\frac{7}{10} + \frac{1}{5} + \frac{23}{30} = 1\frac{2}{3}$	$\frac{2}{3} - \frac{1}{2} = \frac{1}{6}$
$\frac{11}{12} - \frac{3}{6} = \frac{5}{12}$	$\frac{16}{25} = \frac{3}{5} = \frac{1}{25}$
$\frac{7}{12} - \frac{2}{5} = \frac{11}{60}$	$\frac{4}{13} - \frac{3}{12} = \frac{3}{52}$

Multiplying and dividing fractions

If you can, write your answers in the simplest form. (Don't forget to flip reverse it ☺)

$\frac{2}{5} \times \frac{1}{4} = \frac{2}{20} \text{ or } \frac{1}{10}$	$\frac{1}{5} \times \frac{5}{8} = \frac{5}{40} \text{ or } \frac{1}{8}$	$\frac{2}{5} \times \frac{5}{9} = \frac{10}{45} \text{ or } \frac{2}{9}$
$\frac{1}{3} \times 5 = \frac{5}{3} \text{ or } 1\frac{2}{3}$	$\frac{1}{8} \times 3 = \frac{3}{8}$	$\frac{1}{5} \times 12 = \frac{12}{5} \text{ or } 2\frac{2}{5}$
$\frac{1}{2} \times 6 = \frac{6}{2} \text{ or } 3$	$2 \times 3\frac{4}{7} = 7\frac{1}{7}$	$3 \times 4\frac{3}{5} = 13\frac{4}{5}$
$2 \times 4\frac{6}{8} = 9\frac{1}{2}$	$\frac{3}{5} \div 2 = \frac{3}{10}$	$\frac{5}{6} \div 2 = \frac{5}{12}$
$\frac{2}{5} \div 4 = \frac{2}{20} \text{ or } \frac{1}{10}$	$\frac{20}{32} \div 5 = \frac{1}{8} \text{ or } \frac{4}{32}$	$\frac{21}{36} \div 7 = \frac{1}{12} \text{ or } \frac{3}{36}$

You've finished WOOHOO!