

1 Simplify by writing as a single fraction:

a $\frac{a}{2} + \frac{a}{3}$

b $\frac{b}{5} - \frac{b}{10}$

c $\frac{c}{4} + \frac{3c}{2}$

d $\frac{x}{7} - \frac{x}{2}$

e $\frac{a}{3} + \frac{b}{4}$

f $\frac{t}{3} - \frac{5t}{9}$

g $\frac{m}{7} + \frac{2m}{21}$

h $\frac{5d}{6} - \frac{d}{3}$

i $\frac{3p}{5} - \frac{2p}{7}$

j $\frac{m}{2} + \frac{m}{3} + \frac{m}{6}$

k $\frac{a}{2} - \frac{a}{3} + \frac{a}{4}$

l $\frac{x}{4} - \frac{x}{3} + \frac{x}{6}$

2 Simplify:

a $\frac{7}{a} + \frac{3}{b}$

b $\frac{3}{a} + \frac{2}{c}$

c $\frac{4}{a} + \frac{5}{d}$

d $\frac{2a}{m} - \frac{a}{m}$

e $\frac{a}{x} + \frac{b}{2x}$

f $\frac{3}{a} - \frac{1}{2a}$

g $\frac{4}{x} - \frac{1}{xy}$

h $\frac{a}{b} + \frac{c}{d}$

i $\frac{a}{b} - \frac{x}{y}$

j $\frac{2}{3} + \frac{a}{2}$

k $\frac{x}{3} + \frac{3}{4}$

l $\frac{x}{y} + \frac{2}{3}$

3 Simplify:

a $\frac{x}{2} + 1$

b $\frac{y}{3} - 1$

c $\frac{a}{2} + a$

d $\frac{b}{4} - 3$

e $\frac{x}{2} - 4$

f $2 + \frac{a}{3}$

g $3 - \frac{x}{5}$

h $2 + \frac{1}{x}$

i $5 - \frac{2}{x}$

j $a + \frac{2}{a}$

k $\frac{3}{b} + b$

l $\frac{x}{3} - 2x$

4 Simplify:

a $\frac{x}{2} + \frac{2x}{5}$

b $\frac{4x}{5} - \frac{3x}{2}$

c $\frac{3}{a} + \frac{2}{3a}$

d $\frac{4}{y} - \frac{3}{2y}$

e $\frac{5}{a} + \frac{3}{b}$

f $\frac{4}{3a} - \frac{5}{b}$

g $\frac{x}{7} + 2$

h $3 - \frac{x}{4}$