

FRACTIONS

Example	
Simplify: a $\frac{3-9}{2^2+4}$	b $\frac{4 \times 5}{7-18 \div 2}$
a $\frac{3-9}{2^2+4}$ $= \frac{-6}{4+4}$ {simplify numerator and denominator first} $= -\frac{6}{8}$ $= -\frac{3 \times \cancel{2}^1}{4 \times \cancel{2}^1}$ {cancel common factor} $= -\frac{3}{4}$	b $\frac{4 \times 5}{7-18 \div 2}$ $= \frac{20}{7-9}$ $= \frac{20}{-2}$ $= -\frac{10 \times \cancel{2}^1}{\cancel{2}^1}$ $= -10$

Simplify:

a $\frac{3^2}{4-7}$

b $\frac{11-3}{16 \div 4}$

c $\frac{3-7}{5+3}$

d $\frac{7+2}{4 \times 3}$

e $\frac{8-2 \times 5}{4 \times 3}$

f $\frac{7 \times 3 - 5}{2^2}$

g $\frac{-1+8 \div 2}{8-5}$

h $\frac{3^2 - 2 \times 5}{8-3^2}$

Simplify:

a $\frac{4 \times -3}{6}$

b $\frac{-5 \times -4}{-10}$

c $\frac{5 \times -8}{4}$

d $\frac{24}{-3 \times -4}$

e $\frac{6 - -12}{-3}$

f $\frac{3 + -9}{-6}$

g $\frac{5 - -15}{6-8}$

h $\frac{-5 \times -6}{-11-4}$

