

# ALGEBRA EQUATIONS FRACTIONS TEST

name.....

1)a)  $a^4 \times a^2 =$

b)  $3y^7 \times 2y =$

c)  $10p^8 \div 2p^2 =$

d)  $(g^5)^3 =$

e)  $(2z^7)^4 =$

f)  $(3a^2bc^3)^2 =$

g)  $\frac{24y^7}{36y^9} =$

2) Simplify

a)  $\frac{-5}{20} =$

b)  $\frac{-5y}{10y^2} =$

c)  $\frac{-2r^2}{(-2r)^2} =$

3) If  $a = -3$ ,  $b = 5$ ,  
 $c = -4$ ,  $d = 7$   
evaluate

a)  $ab - cd$

b)  $a^2 - b^2$

4) Solve (showing all the required steps)

a)  $7 + r = 11$

b)  $s - 9 = -11$

c)  $8g = 56$

d)  $\frac{y}{3} = -5$

e)  $4k + 9 = -3$

f)  $3p - 1 = 7$

5) Solve (show all working)

a)  $\frac{4}{9} + \frac{5}{12}$

b)  $\frac{3}{a} - \frac{2}{ab}$

c)  $\frac{a}{2} \times \frac{4}{3a}$

d)  $1\frac{1}{3} \div 2\frac{1}{2} \times 1\frac{4}{5}$

e)  $\frac{a}{c^2} \div \frac{b}{c}$

f)  $5\frac{1}{6} - 3\frac{3}{8}$

g)  $\frac{\frac{a}{c} + \frac{c}{b}}{\frac{a}{d} + \frac{c}{d}}$

This test was great fun