

# ALGEBRA & THE NUMBER LAW TEST

name \_\_\_\_\_

- 1) Simplify by the easiest method. (show working)

a)  $367 + 489 + 33$

=

=

b)  $67 \times 5 \times 0 \times 20$

=

- 4) Expand and simplify

a)  $5(7y + 3) + 3(3y + 8)$

=

=

b)  $2(8k + 3) + 6(4k + 7)$

=

=

c)  $8(3t + 4) + 5(6t - 2)$

=

=

d)  $5(9g + 3) + 4(4g - 2)$

=

=

- 2) Simplify

a)  $7k + 5k$

=

b)  $m \times n$

=

c)  $6g \times 3f$

=

d)  $5ab + 4ba$

=

e)  $6y \times 1$

=

f)  $5y + 6 + 2y$

=

g)  $7k + 0$

=

h)  $7t \times 3t$

=

i)  $7g \div 7$

=

j)  $8jk \div 2k$

=

k)  $7y - 5y$

=

l)  $6g + 7g - 5g$

=

m)  $3y^2 \div y$

=

- 3) Expand

a)  $6(f + 5)$

=

b)  $7(5t - 3)$

=

c)  $4(y + 8)$

=

d)  $y(h - 2t)$

=

e)  $k(6t + 5y)$

=

f)  $8(9r + 4)$

=

g)  $3(9y - 1)$

=

h)  $6(7g + 2)$

=



- 5) Simplify
- a)  $6y + 9y - y$
- b)  $8k - 6k + 4k$
- c)  $7y + 5 - 5y$
- d)  $4k \times 8k$
- e)  $7g \times 7h$
- f)  $9cd - cd$
- g)  $7 + 8 + 9k$
- h)  $8abc \div 2a$
- i)  $8k + k3$
- j)  $7y \times 3k \times 1$
- k)  $8y \times 3y \times 0$
- l)  $8y + 6y - 5k$
- m)  $7t + 9k - 5t - 8k$
- n)  $6r + 8h + 6r - h$
- o)  $9p + 8t - 9p - 7t$
- 6) Expand
- a)  $6(5y + 9)$
- b)  $7y(4y - 8)$
- c)  $5f(7g + 6f)$
- d)  $9k(6k - 7y)$
- 7) Factorise
- a)  $5y + 15$
- b)  $6t - 9$
- c)  $4f + 12$
- d)  $ak + ay$
- e)  $k^2 + 3k$
- f)  $9m + 15$
- g)  $7h - 21$
- h)  $12y + 18$
- i)  $4d - 6k$
- j)  $9n + 12$

this test is  
fabulous fun

