

Algebra 1

1) For each pattern write down the next 2 numbers

a) 22 , 18 , 14 ,

b) 15 , 23 , 31 ,

c) 2.6 , 3.2 , 3.8 ,

d) 1 , 2 , 4 , 8 ,

e) 1 , 4 , 9 , 16 ,

f) 30 , 36 , 43 , 51 ,

2) Complete these tables

a) $y = 3x + 7$

x	1	2	3	4
y				

b) $p = 5q^2$

q	1	2	3	4
p				

c) $m = n^2 + 7$

n	7	8	9	10
m				

d) $d = 3c + 8$

c	1	2	3	4
d				

test 2d

e) $f = e^2 + 6$

e	1	3	5	7
f				

f) $h = 3(k + 5)$

k	1	2	3	4
h				

g) $p = (a + 8) \div 2$

a	0	6	12	18
p				

3) $x = 3$, $y = 5$ and $z = 6$.
Substitute and evaluate these expressions.

a) $5yz$

=

=

b) xz^2

=

=

c) $(xz)^2$

=

=

d) $2y^2 + xz$

=

=

e) $xy + z \div 2$

=

=

name.....

4) Find the equation which describes the number pattern

a)

x	1	2	3	4
y	3	9	15	21

y =

b)

x	1	2	3	4
y	2	6	10	14

y =

c)

x	1	2	3	4
y	6	8	10	12

y =

d)

x	1	2	3	4
y	8	11	14	17

y =

5) Evaluate the pronumeral

a) $a + 12 = 17$

a =

b) $b - 6 = 11$

b =

c) $7c = 42$

c =

d) $d \div 3 = 9$

d =