

Algebra 1

1) For each pattern write down the next 2 numbers

- a) 13 , 11 , 9 ,
- b) 25 , 50 , 75 ,
- c) 5.4 , 7.4 , 9.4 ,
- d) 3 , 6 , 12 , 24 ,
- e) 1 , 4 , 9 , 16 ,
- f) 60 , 50 , 41 , 33 ,

2) Complete these tables

a) $y = 3x + 7$

x	1	2	3	4
y				

b) $p = 4q^2$

q	1	2	3	4
p				

c) $m = n^2 - 5$

n	7	8	9	10
m				

d) $d = 8c + 6$

c	1	2	3	4
d				

test 2b

e) $f = e^2 + 8$

e	1	3	5	7
f				

f) $h = 2(k + 1)$

k	1	2	3	4
h				

g) $p = (a + 4) \div 2$

a	0	6	12	18
p				

3) $x = 2$, $y = 4$ and $z = 8$.
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	5	10	15	20

y =

b)

x	1	2	3	4
y	4	7	10	13

y =

c)

x	1	2	3	4
y	4	5	6	7

y =

d)

x	1	2	3	4
y	3	5	7	9

y =

5) Evaluate the pronumeral

a) $a + 5 = 17$

a =

b) $b - 5 = 7$

b =

c) $5c = 35$

c =

d) $d \div 4 = 6$

d =