

Algebra 1

1) For each pattern write down the next 2 numbers

- a) 13 , 10 , 7 ,
- b) 25 , 40 , 55 ,
- c) 3.4 , 7.4 , 11.4 ,
- d) 5 , 10 , 20 , 40 ,
- e) 1 , 4 , 9 , 16 ,
- f) 50 , 40 , 31 , 23 ,

2) Complete these tables

a) $y = 5x + 7$

x	1	2	3	4
y				

b) $p = 3q^2$

q	1	2	3	4
p				

c) $m = n^2 - 3$

n	7	8	9	10
m				

d) $d = 12c + 6$

c	1	2	3	4
d				

test 2a

e) $f = e^2 + 6$

e	1	3	5	7
f				

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

k	1	2	3	4
h				

g) $p = (a + 6) \div 2$

a	0	6	12	18
p				

3) $x = 3$, $y = 4$ and $z = 10$.
Substitute and evaluate these expressions.

a) $3yz$

=

=

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	6	9	12

y =

b)

x	1	2	3	4
y	4	9	14	19

y =

c)

x	1	2	3	4
y	4	6	8	10

y =

d)

x	1	2	3	4
y	7	11	15	19

y =

5) Evaluate the pronumeral

a) $a + 7 = 12$

a =

b) $b - 9 = 4$

b =

c) $3c = 27$

c =

d) $d \div 5 = 6$

d =