

Algebra 1

1) For each pattern write down the next 2 numbers

a) 21, 18, 15,

b) 15, 30, 45,

c) 3.6, 4.1, 4.6,

d) 1, 3, 9, 27,

e) 1, 4, 9, 16,

f) 60, 70, 81, 93,

2) Complete these tables

a) $y = 5x + 7$

x	1	2	3	4
y				

b) $p = 2q^2$

q	1	2	3	4
p				

c) $m = n^2 + 5$

n	7	8	9	10
m				

d) $d = 10c + 1$

c	1	2	3	4
d				

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e) $f = e^2 + 3$

e	1	3	5	7
f				

f) $h = 3(k + 1)$

k	1	2	3	4
h				

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

a	0	6	12	18
p				

3) $x = 2$, $y = 8$ and $z = 6$.
Substitute and evaluate these expressions.

a) $5yz$

=

=

b) xz^2

=

=

c) $(xz)^2$

=

=

d) $2y^2 + xz$

=

=

e) $xy + z \div 3$

=

=

4) Find the equation which describes the number pattern

a)

x	1	2	3	4
y	7	9	11	13

y =

b)

x	1	2	3	4
y	2	7	12	17

y =

c)

x	1	2	3	4
y	4	7	10	13

y =

d)

x	1	2	3	4
y	5	11	17	23

y =

5) Evaluate the pronumeral

a) $a + 9 = 17$

a =

b) $b - 6 = 21$

b =

c) $7c = 35$

c =

d) $d \div 5 = 9$

d =