

Algebra 1

1) For each pattern write down the next 2 numbers

a) 5 , 8 , 11 ,

b) 40 , 35 , 30 ,

c) 10.5 , 8.5 , 6.5 ,

d) 3 , 6 , 12 , 24

e) 80 , 40 , 20 , 10

f) 3.7 , 2.8 , 1.9

2) Complete these tables

a) $y = x + 5$

x	1	2	3	4
y				

b) $p = 2q$

q	3	4	5	6
p				

c) $m = n - 3$

n	7	8	9	10
m				

d) $d = 5c + 1$

c	1	2	3	4
d				

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e) $f = e^2$

e	1	2	3	4
f				

f) $h = 3k$

k	1	2	3	4
h				

g) $p = a \div 2$

a	0	2	4	6
p				

h) $h = 5m$

m	1	2	3	4
h				

i) $y = 3x - 3$

x	3	4	5	6
y				

j) $t = 2k + 2$

k	1	2	3	4
t				

k) $g = 10s$

s	1	2	3	4
g				

l) $p = h^2 + 3$

h	1	2	3	4
p				

3) $x = 3$, $y = 5$ and $z = 10$.
Substitute and evaluate these expressions.

a) $3y$

=

=

b) xz

=

=

c) $2x + y$

=

=

d) y^2

=

=

e) $z \div 2$

=

=

f) $2z^2$

=

=

g) $y + y + y + y + y$

=

=

h) $3x + 2z$

=

=

i) $7x - z$

=

=