



Math worksheet on 'Patterning - Equation for Decreasing Arithmetic Pattern (Level 1)'. Part of a broader unit on 'Patterns and Sums - Practice'

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2 Find the correct equation to describe this decreasing pattern where n=1 is the first term 22, 18, 14, 10, 6

a $a_n = a_{n-2} + a_{n-1}$	b $a_n = 22 \times 4^{n-1}$
c $a_n = 22 - 4(n - 1)$	d $a_n = 22 - 8(n - 1)$
e $a_n = 22 - 4(n)$	f $a_n = 24 - 4(n - 1)$

1 Find the correct equation to describe this decreasing pattern where n=1 is the first term 18, 14, 10, 6

a $a_n = 18 - 3(n - 1)$	b $a_n = a_{n-2} + a_{n-1}$
c $a_n = 18 - 4(n - 1)$	d $a_n = 18 \times 4^{n-1}$
e $a_n = 17 - 4(n - 1)$	f $a_n = 18 - 4(n)$

3 Find the correct equation to describe this decreasing pattern where n=1 is the first term 17, 13, 9, 5

a $a_n = 13 - 4(n - 1)$	b $a_n = 17 - 4(n - 1)$
c $a_n = 17 - 4(n)$	d $a_n = 17 \times 4^{n-1}$
e $a_n = a_{n-2} + a_{n-1}$	f $a_n = 14 - 4(n - 1)$

4 Find the correct equation to describe this decreasing pattern where n=1 is the first term 13, 10, 7, 4

a $a_n = 13 - 1(n - 1)$	b $a_n = 13 - 3(n)$
c $a_n = 13 - 3(n - 1)$	d $a_n = 13 - 0(n - 1)$
e $a_n = a_{n-2} + a_{n-1}$	f $a_n = 13 + 3(n - 1)$

5 Find the correct equation to describe this decreasing pattern where n=1 is the first term 21, 16, 11, 6

a $a_n = 21 - 4(n - 1)$	b $a_n = 21 - 8(n - 1)$
c $a_n = 21 - 5(n)$	d $a_n = a_{n-2} + a_{n-1}$
e $a_n = 21 - 5(n - 1)$	f $a_n = 21 + 5(n - 1)$

6 Find the correct equation to describe this decreasing pattern where n=1 is the first term 14, 11, 8, 5

a $a_n = 14 - 3(n)$	b $a_n = 14 - 7(n - 1)$
c $a_n = 14 \times 3^{n-1}$	d $a_n = 14 - 3(n - 1)$
e $a_n = 18 - 3(n - 1)$	f $a_n = a_{n-2} + a_{n-1}$

7 Find the correct equation to describe this decreasing pattern where n=1 is the first term 31, 25, 19, 13, 7

a $a_n = 31 - 6(n - 1)$	b $a_n = 34 - 6(n - 1)$
c $a_n = 31 \times 6^{n-1}$	d $a_n = 31 - 6(n)$
e $a_n = 31 - 3(n - 1)$	f $a_n = a_{n-2} + a_{n-1}$