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

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1 Find the correct equation to describe this increasing pattern where n=1 is the first term

2, 8, 14, 20

a $a_n = 2 - 6(n-1)$

b $a_n = 4 + 6(n-1)$

c $a_n = 2 \times 6^{n-1}$

d $a_n = 2 + 6(n-1)$

e $a_n = a_{n-2} + a_{n-1}$

f $a_n = 5 + 6(n-1)$

2 Find the correct equation to describe this increasing pattern where n=1 is the first term

3, 5, 7, 9

a $a_n = 3 + 6(n-1)$

b $a_n = 3 \times 2^{n-1}$

c $a_n = 2 + 2(n-1)$

d $a_n = 3 + 2(n)$

e $a_n = 3 + 2(n-1)$

f $a_n = 3 + 4(n-1)$

3 Find the correct equation to describe this increasing pattern where n=1 is the first term

3, 7, 11, 15

a $a_n = 3 + 3(n-1)$

b $a_n = 3 + 0(n-1)$

c $a_n = 3 + 4(n)$

d $a_n = 3 \times 4^{n-1}$

e $a_n = 3 + 4(n-1)$

f $a_n = 6 + 4(n-1)$

4 Find the correct equation to describe this increasing pattern where n=1 is the first term

2, 6, 10, 14

a $a_n = -1 + 4(n-1)$

b $a_n = a_{n-2} + a_{n-1}$

c $a_n = 4 + 4(n-1)$

d $a_n = 2 + 4(n)$

e $a_n = 2 - 4(n-1)$

f $a_n = 2 + 4(n-1)$

5 Find the correct equation to describe this increasing pattern where n=1 is the first term

1, 6, 11, 16, 21

a $a_n = 1 + 5(n-1)$

b $a_n = a_{n-2} + a_{n-1}$

c $a_n = 1 + 5(n)$

d $a_n = 1 + 2(n-1)$

e $a_n = 1 \times 5^{n-1}$

f $a_n = 1 - 5(n-1)$

6 Find the correct equation to describe this increasing pattern where n=1 is the first term

3, 5, 7, 9, 11

a $a_n = 2 + 2(n-1)$

b $a_n = 3 + 2(n)$

c $a_n = 3 - 2(n-1)$

d $a_n = 3 + 0(n-1)$

e $a_n = 3 + 2(n-1)$

f $a_n = a_{n-2} + a_{n-1}$

7 Find the correct equation to describe this increasing pattern where n=1 is the first term

2, 5, 8, 11

a $a_n = a_{n-2} + a_{n-1}$

b $a_n = 2 \times 3^{n-1}$

c $a_n = 2 + 3(n-1)$

d $a_n = 2 + 3(n)$

e $a_n = 2 + 1(n-1)$

f $a_n = 2 + 4(n-1)$