mobius

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

Learn online: app.mobius.academy/math/units/patterns_and_sums_practice/

1

Find the correct equation that this pattern rule describes

Start at 14 and subtract 3 for each term

a $a_n = 14 \times 3^{n-1}$	**b** $a_n = 15 - 3(n-1)$
c $a_n = 14 - 3(n-1)$	**d** $a_n = 14 + 3(n-1)$
e $a_n = 14 - 2(n-1)$	**f** $a_n = a_{n-2} + a_{n-1}$

2

Find the correct equation that this pattern rule describes

Start at 21 and subtract 4 for each term

a $a_n = 21 - 4(n-1)$	**b** $a_n = 21 - 7(n-1)$
c $a_n = 19 - 4(n-1)$	**d** $a_n = 21 \times 4^{n-1}$
e $a_n = 21 - 4(n)$	**f** $a_n = a_{n-2} + a_{n-1}$

3

Find the correct equation that this pattern rule describes

Start at 22 and subtract 5 for each term

a $a_n = a_{n-2} + a_{n-1}$	**b** $a_n = 22 - 5(n-1)$
c $a_n = 22 + 5(n-1)$	**d** $a_n = 22 - 5(n)$
e $a_n = 20 - 5(n-1)$	**f** $a_n = 19 - 5(n-1)$

4

Find the correct equation that this pattern rule describes

Start at 12 and subtract 2 for each term

a $a_n = 12 - 0(n-1)$	**b** $a_n = 12 - 2(n-1)$
c $a_n = 12 \times 2^{n-1}$	**d** $a_n = 15 - 2(n-1)$
e $a_n = 12 + 2(n-1)$	**f** $a_n = 8 - 2(n-1)$

5

Find the correct equation that this pattern rule describes

Start at 18 and subtract 4 for each term

a $a_n = a_{n-2} + a_{n-1}$	**b** $a_n = 18 - 3(n-1)$
c $a_n = 18 - 5(n-1)$	**d** $a_n = 18 - 4(n-1)$
e $a_n = 18 + 4(n-1)$	**f** $a_n = 18 - 4(n)$

6

Find the correct equation that this pattern rule describes

Start at 23 and subtract 5 for each term

a $a_n = 23 - 5(n-1)$	**b** $a_n = 23 - 3(n-1)$
c $a_n = 23 - 1(n-1)$	**d** $a_n = 23 \times 5^{n-1}$
e $a_n = 23 - 5(n)$	**f** $a_n = a_{n-2} + a_{n-1}$

7

Find the correct equation that this pattern rule describes

Start at 11 and subtract 2 for each term

a $a_n = 11 - 0(n-1)$	**b** $a_n = 14 - 2(n-1)$
c $a_n = a_{n-2} + a_{n-1}$	**d** $a_n = 11 - 1(n-1)$
e $a_n = 11 - 2(n)$	**f** $a_n = 11 - 2(n-1)$