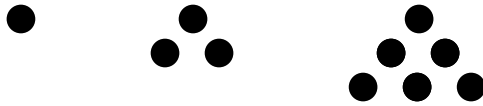


Which grade are you.....?

Sequences : Foundation

1 Draw the next diagram in this sequence.



Grade G

2 Write down the **5th**, **8th** and **10th** terms in the following sequences.

a) 0, 5, 10, 15,.....

b) 2, 5, 8, 11,

Grade F

3 Write down the **term-to-term** rule for the following sequences.

a) 3, 7, 10, 13,..

b) 1, 2, 4, 8, 16,

c) 1, 2, 4, 7, 11,

Grade E

4 Write down the missing terms in the sequence 3, ..., -1, -3,,, -9 ,

5 Write down the first three terms of the sequence whose nth term is $n^2 - 5$

Grade D

6 The nth term of a sequence is $4n + 3$.
Alice says that the 10th term is double the 5th term.
Is she correct? Show how you decide.

7 Write down the nth term for each of the following sequences

a) 4, 11, 18, 25,

b) 6, 9, 12, 15,

c) 95, 90, 85 , 80,

d) -5, 0, 5, 10 ,.....

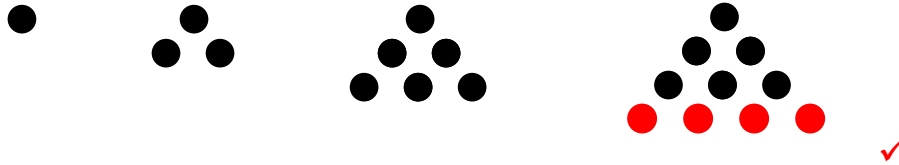
Grade C

Which grade are you.....?

Sequences : Foundation

ANSWERS

- 1 Draw the next diagram in this sequence.



Grade G

- 2 Write down the **5th**, **8th** and **10th** terms in the following sequences.

a) 0, 5, 10, 15,..... 20, 35 and 45 ✓✓✓

b) 2, 5, 8, 11, 14, 23 and 29 ✓✓✓

Grade F

- 3 Write down the **term-to-term** rule for the following sequences.

a) 3, 7, 10, 13,.. add 4 ✓✓

b) 1, 2, 4, 8, 16, multiply by 2 ✓✓

c) 1, 2, 4, 7, 11, add consecutive integers ✓✓

Grade E

- 4 Write down the missing terms in the sequence 3, 1, -1, -3, -5, -7, -9, ✓✓✓

- 5 Write down the first three terms of the sequence whose n th term is $n^2 - 5$
-4, -1, 4 ✓✓✓

Grade D

- 6 The n th term of a sequence is $4n + 3$.
Alice says that the 10th term is double the 5th term.
Is she correct? Show how you decide.
10th term = 43 5th term = 23 ✓
 $23 \times 2 = 46$ not 43 ✓
No ✓

- 7 Write down the n th term for each of the following sequences

a) 4, 11, 18, 25, $7n - 3$ ✓✓

b) 6, 9, 12, 15, $3n + 3$ ✓✓

c) 95, 90, 85, 80, $100 - 5n$ ✓✓

d) -5, 0, 5, 10, $10 - 5n$ ✓✓

Grade C