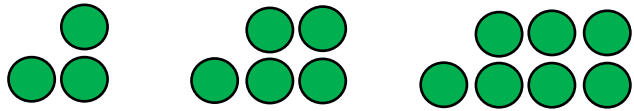


Year 7

Sequences

Name _____

1 Here are the first three terms in a sequence.



Draw the next term in the sequence.

How many circles will make up the 5th term?

1 mark

1 mark

2 Find the next two terms in each of the linear sequences.

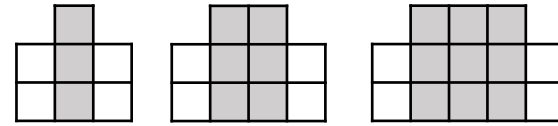
51, 47, 43, _____, _____

1500, 2600, 3700, _____, _____

7.25, 7.45, 7.65, _____, _____

3 marks

3



How many grey squares would there be in the 4th term of this sequence?

1 mark

How many white squares would there be in the 19th term of the sequence?

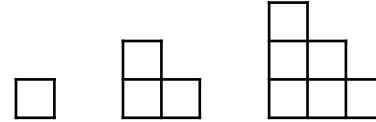
1 mark

4

Tick the sequence that is linear.

1, 4, 16, 64, 256

8.3, 6.3, 4.3, 2.3, 0.3



1 mark

5

Create two **different** linear sequences that both start with the number 65

65, _____, _____, _____

65, _____, _____, _____

2 marks

- 6 Find the next two terms in these geometric sequences.

5, 10, 20, _____, _____

9000, 900, 90, _____, _____

2 marks

- 7 This pattern repeats every three terms as shown.




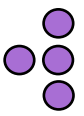
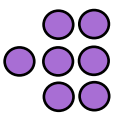
What will be the 9th term in the pattern?

What will be the 31st term in the pattern?

1 mark

1 mark

- 8 Complete the table to represent the sequence.

							
			Term	1	2	3	4
			Number of circles				

Would the points of the graph of this sequence lie on a straight line? Explain your answer.

1 mark

1 mark

- 9 Find the missing terms in these linear sequences.

H

3, _____, 9

_____, 3, _____, _____, 9

2 marks

- 10 Find the next two terms in this sequence.

H

3, 6, 10, 15, _____, _____

1 mark

- 11 These numbers make up two linear sequences.

H

1 3 4 5 7 7 10 13

What are the two linear sequences?

1st _____, _____, _____, _____

2nd _____, _____, _____, _____

1 mark

Total marks