

Year 7 Assessment Sequences 1

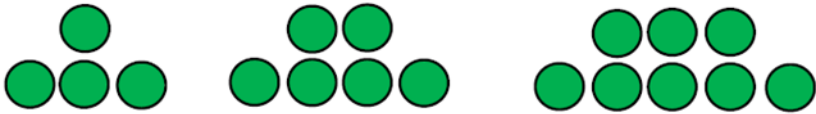
Total Score /20



achildsguideto

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 7th term?

1 mark

1 mark

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

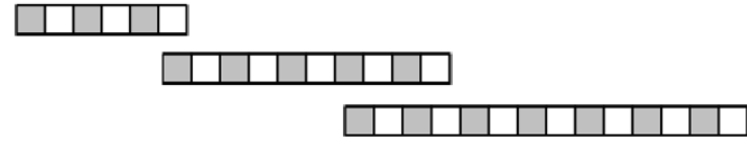
65, 53, 41, _____, _____

12, 4, -4, _____, _____

2.25, 3.45, 4.65, _____, _____

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?

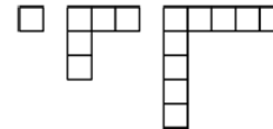
1 mark

4

Tick all the sequences that are linear.

2, 8, 32, 128, 512

6.7, 6.3, 5.9, 5.5, 5.1



1 mark

5

Create two **different** linear sequences that both start with the number 90

90, _____, _____, _____

90, _____, _____, _____

2 marks

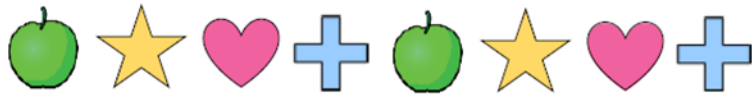
6 Find the next two terms in these geometric sequences.

3, 9, 27, _____, _____

6000, 600, 60, _____, _____

2 marks

7 This pattern repeats every four terms as shown.



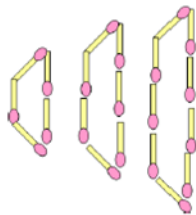
What will be the 16th term in the pattern?

1 mark

What will be the 31st term in the pattern?

1 mark

8 Complete the table to represent the sequence.



Term	1	2	3	4
Number of matches				

1 mark

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

1 mark

9 Find the missing terms in these linear sequences.

5, _____, 9

_____, 5, _____, _____, 9

2 marks

10 Find the next two terms in this sequence.

7, 8, 10, 13, _____, _____

1 mark

11 These numbers make up two linear sequences.

2 3 4 6 7 8 11 15

What are the two linear sequences?

1st _____, _____, _____, _____

2nd _____, _____, _____, _____

1 mark

Year 7 Assessment Sequences 2

Total Score /20



Name: _____

1 Here are the first three terms in a sequence.



Draw the next term in the sequence.

How many triangles will make up the 5th term?

1 mark

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

95, 87, 79, _____, _____

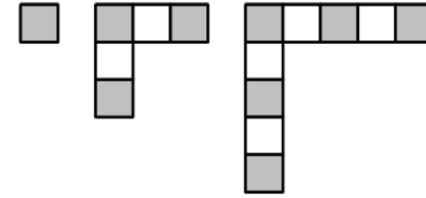
-12, 2, 16, _____, _____

8.99, 10, 11.01, _____, _____

1 mark

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, 8, 27, 64, 125

-2, 2, -2, 2, -2

$x + 2$, $x + 6$, $x + 10$, $x + 14$

1 mark

5

Create two **different** linear sequences that both start with the number 25

25, _____, _____, _____

25, _____, _____, _____

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 four terms as shown.



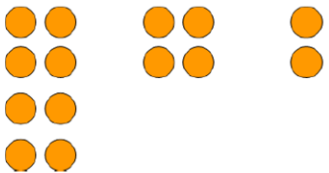
What will be the 20th term in the pattern? _____

What will be the 41st 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.

15, _____, 9

_____, 15, _____, _____, 9

2 marks

10 Find the next two terms in this sequence.

7, 9, 12, 16, _____, _____

1 mark

11 These numbers make up two linear sequences.

-2 3 4 6 9 10 12 16

What are the two linear sequences?

1st _____, _____, _____, _____

2nd _____, _____, _____, _____

1 mark

Year 7 Assessment Sequences 3

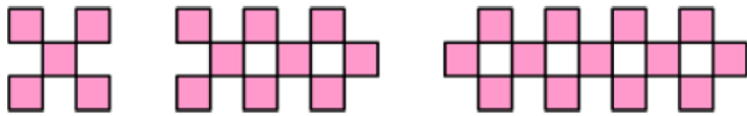
Total Score /20



Name: _____

1

Here are the first three terms in a sequence.



Draw the next term in the sequence.

1 mark

How many squares will make up the 5th term?

2

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

3, 8, 13, _____, _____

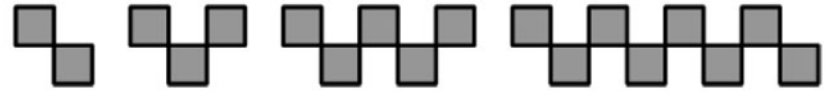
8000, 7200, 6400, _____, _____

6.27, 7.48, 8.69, _____, _____

1 mark

3 marks

3



How many grey squares would there be in the 5th term of this sequence?

1 mark

How many white squares would there be in the 8th term of the sequence?

1 mark

4

Tick the sequence that is linear.

-3, 8, 5, 13, 18

-1, 2, -3, 4, -5

$2k + 2$, $2k + 6$, $2k + 10$, $2k + 14$

1 mark

5

Create two **different** linear sequences that both start with the number 25

25, _____, _____, _____

25, _____, _____, _____

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 five terms as shown.



What will be the 25th term in the pattern?

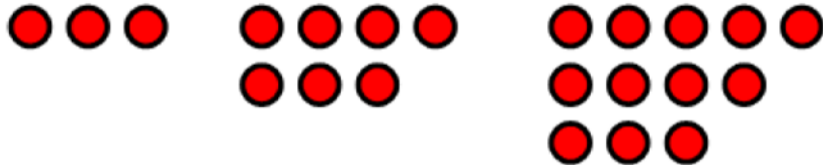
What will be the 21st term in the pattern?

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

9 Find the missing terms in these linear sequences.

15, _____, 9

_____, 15, _____, _____, 9

2 marks

10 Find the next two terms in this sequence.

2, 4, 7, 11, _____, _____

1 mark

11 These numbers make up two linear sequences.

2 3 4 6 6 8 9 12

What are the two linear sequences?

1st _____, _____, _____, _____

2nd _____, _____, _____, _____

1 mark

