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| --- | --- |
| My score: | |
| Developing | 0-3 |
| Secure | 4-7 |
| Extending | 8-11 |

Name:

Form:

Submission date:

**Sequences homework**

1. Here are the first four terms of a simple sequence.  
Write down the next term in the sequence.

5 12 19 26

…….………….

(Total 1 mark)

2. Write down the term to term rule of the following sequence:

1, 3, 5, 7, 9,…

Term-to-term rule ……………………….

(1)

3. Here are some patterns made up of dots.



In the space below, draw Pattern number 4.

(1)

4. (a) What are the next 3 terms in this sequence:

0, 1, 1, 2, 3, 5, 8, 13

……... ……… ……….

(1)

(b) What is the special name for this sequence? …………………………………….

(1)

5. Here is a number sequence:

2, 5, 10, 17, 26, …

(a) Write the next term in this number sequence ………………………….

(1)

6. Write down the term to term rule of the following sequence:

1, 2, 4, 8, 16, …

Term-to-term rule ……………………….

(1)

7. Here are the first five terms of a number sequence.

3 7 11 15 19

Adeel says that 319 is a term in the number sequence.

(b) Is Adeel correct?  
You must justify your answer.

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(2)

8. The nth term of a number sequence is 4n + 5

Work out the first three terms of this number sequence.

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(2)