1) a) Draw the next pattern in the sequence using the empty grid.

![Pattern 1 and Pattern 2](image1)

b) The table below shows the number of dots used to make each pattern. Complete the table.

<table>
<thead>
<tr>
<th>Pattern number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of dots</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

c) Describe the term-to-term rule.

2) a) Draw the next pattern in the sequence using the empty grid.

![Pattern 1 and Pattern 2](image2)

b) The table below shows the number of dots used to make each pattern. Complete the table.

<table>
<thead>
<tr>
<th>Pattern number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of dots</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

c) Describe the term-to-term rule.
3) a) Draw the next pattern in the sequence using the empty grid below.

```
  1st  2nd  3rd
```

b) Write the next two numbers in the pattern:

1, 3, 6, 10, 15,

4) a) Write the next two numbers in the sequence below.

```
15, 21, 27, 33, 39
```

b) Write the term-to-term rule for finding the next number in the sequence above.

5) a) Write the next two numbers in the sequence below.

```
94, 99, 104, 109, 114
```

b) Write the term-to-term rule for finding the next number in the sequence above.

6) a) Write the next two numbers in the sequence below.

```
2, 8, 14, 20, 26
```

b) Write the term-to-term rule for finding the next number in the sequence above.
8) a) Write the next two numbers in the sequence below.

-104, -110, -116, -122, -128

b) Write the term-to-term rule for finding the next number in the sequence above.
Solutions for the assessment Sequences - term to term rule

1) a) b) 8, 11, 14, 17 c) add 3

2) a) b) 10, 14, 18, 22 c) add 4

3) a) , b) 21, 28

4) a) 45, 51 b) add 6

5) a) 119, 124 b) add 5

6) a) 32, 38 b) add 6

7) a) 57, 51 b) subtract 6

8) a) -134, -140 b) subtract 6