1. The numbers in this sequence increase by 14 each time.

Write the missing numbers.

\[
\begin{array}{cccc}
\underline{ } & 82 & 96 & \underline{ } \\
\underline{ } & 124 & 138 & \underline{ }
\end{array}
\]
2011A KS2 Q9

Here is part of a number sequence.

The numbers in the sequence increase by 25 each time.

50  75  100  125  ...

Circle all of the numbers below that will appear in the sequence.

255  650  735  900  995

2008A KS2 Q6

The numbers in this sequence increase by 75 each time.

Write in the two missing numbers.

725  800  875  950

2008A KS2 Q23

The numbers in this sequence increase by 7 each time.

1  8  15  22  29  ....

The sequence continues in the same way.

Will the number 777 be in the sequence?
Circle Yes or No.

Yes / No

2007A KS2 Q5

Here is part of a number sequence.

The numbers increase by the same amount each time.

750  755  760  765  770

The sequence continues.

Circle all of the numbers below that would appear in the sequence.

840  905  989  1000  2051

2010A KS2 Q18

In this diagram the rule is 'to make the number in a triangle, multiply the numbers in the two squares above it'.

Write in the three missing numbers.

6  3  8  18  32  10
Here is a number chart. Every third number in the chart has a circle on it.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<tr>
<td>6</td>
<td>7</td>
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<td>10</td>
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<td>12</td>
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<td>21</td>
<td>22</td>
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</tbody>
</table>

The chart continues in the same way. Here is another row in the chart.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>72</td>
<td>73</td>
<td>74</td>
<td>75</td>
</tr>
</tbody>
</table>

Draw the missing circles.

Will the number 1003 have a circle on it? Circle Yes or No.

Yes / No

Explain how you know.

Here is a repeating pattern of shapes. Each shape is numbered.

1 2 3 4 5 6 7 8 9 10

The pattern continues in the same way.

Write the numbers of the next two stars in the pattern.

Complete this sentence.

Shape number 35 will be a circle because ...

The first two numbers in this sequence are 2.1 and 2.2. The sequence then follows the rule ‘to get the next number, add the two previous numbers’.

Write in the next two numbers in the sequence.

2.1 2.2 4.3 6.5
A sequence starts at 500 and 80 is subtracted each time.

500  420  340 ...

The sequence continues in the same way.

Write the first two numbers in the sequence which are less than zero.

2000 Q20

This sequence of numbers goes up by 40 each time.

40  80  120  160  200 ...

This sequence continues.

Will the number 2140 be in the sequence? Circle Yes or No.

Yes / No

Explain how you know.

Here is a sequence of patterns made from squares and circles.

<table>
<thead>
<tr>
<th>number of squares</th>
<th>number of circles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
</tr>
</tbody>
</table>

The sequence continues in the same way.

Calculate how many squares there will be in the pattern which has 25 circles.

Show your working. You may get a mark.