Daily Dilemma #4: Answer Key

1. Let $a =$ age of the lion
   \[2(a + 14) = 46\]
   So $a = 9$ years old

2. 

<table>
<thead>
<tr>
<th>Turns of reel</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth of hook</td>
<td>3</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>15</td>
<td>18</td>
<td>21</td>
<td>24</td>
<td>27</td>
</tr>
</tbody>
</table>

He turned the reel 45 times to catch a fish 27 feet down. Every time Peter turns the reel 5 times, the hook drops 3 more feet.

3. $126 + 126 + \boxed{\phantom{0}} = 387$

   The third side has length 135mm

4. 4 blue houses
   \[4 + 7 = 11\] yellow houses
   \[3 \times 11 = 33\] white houses

   \[4 + 11 + 33 = 48\] houses on George’s street

5. 14 years old