Problem Solving: Use Patterns to Predict

Solve.

1. Look at this pattern of numbers. 
\{3, 6, 9, 12, 15, 18, 21, 24, 27\} 
If the pattern continues, what is the next number likely to be?

2. Look at this pattern of numbers. 
\{1, 10, 2, 9, 3, 8, 4, 7, 5, 6, 6\} 
If the pattern continues, what is the next number likely to be?

3. Two pretzels cost $3.00, four pretzels cost $5.50, six pretzels cost $7.50, and eight pretzels cost $9.00. If the pattern continues, how much will 12 pretzels cost?

4. What is the probability of spinning a 1?

5. A bag of candy contains candies of six different colors. The table lists the probabilities of each color for a randomly chosen candy. What is the probability that the candy chosen will be blue?

<table>
<thead>
<tr>
<th>Blue</th>
<th>Brown</th>
<th>Red</th>
<th>Yellow</th>
<th>Green</th>
<th>Orange</th>
</tr>
</thead>
<tbody>
<tr>
<td>?</td>
<td>(\frac{3}{10})</td>
<td>(\frac{2}{10})</td>
<td>(\frac{2}{10})</td>
<td>(\frac{1}{10})</td>
<td>(\frac{1}{10})</td>
</tr>
</tbody>
</table>

6. Using the table in Problem 5, what is the probability that any candy chosen at random is red, yellow, or orange?

Leveled Problem Solving

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