Identifying Patterns

1. Complete.
   \[
   \begin{array}{c|c|c}
   \text{in} & \text{out} \\
   \hline
   2 & 18 \\
   4 & 27 \\
   6 & 45 \\
   \end{array}
   \]
   What patterns do you see?

2. Complete.
   \[
   \begin{array}{c|c|c}
   \text{in} & \text{out} \\
   \hline
   11 & 22 \\
   \hline
   33 & 55 \\
   \end{array}
   \]
   What patterns do you see?

3. Study the pattern.
   \[
   \begin{array}{c|c|c|c|c|c}
   \text{1} & \text{2} & \text{3} & \text{4} & \text{5} \\
   \end{array}
   \]
   a. Draw the next step in the pattern. What patterns do you notice?
   
   b. How many circles will be in the 6th step? ________ In the 10th step? ________
   
   c. How did you figure out how many circles will be in the 10th step?

Practice

4. \[800,000 + 90 = \underline{\hspace{2cm}}\]
5. \[200,000 + 50,000 + 4 = \underline{\hspace{2cm}}\]