Operations & Algebraic Thinking

1. **4.OA.1**
   Look at these numbers:
   1 3 7 9
   Choose two numbers from the box to complete the multiplication sentence:
   \[
   \square \times \square = 27
   \]

2. **4.OA.1**
   What multiplication and division facts does the array represent:
   \[
   \begin{array}{cccc}
   * & * & * & * \\
   * & * & * & * \\
   * & * & * & * \\
   \end{array}
   \]
   \[
   ____ \times ____ = ____
   ____ \div ____ = ____
   \]

3. **4.OA.2**
   A sweater costs $24, which is 3 times more than the price of a t-shirt. How much does a t-shirt cost?

4. **4.OA.2**
   Cora drew 30 pictures in her sketchbook. She drew five times as many pictures as Mia. How many pictures did Mia draw?

5. **4.OA.3**
   The movie theater charges $5 for each child's ticket and $8 for each adult's ticket. The student council purchased 20 tickets and spent $102. How many of each type of ticket did the student council buy?

6. **4.OA.3**
   Max earned $14 on Saturday but he only managed to earn half that amount on Sunday. He earned $30 the previous weekend. How much more does he need to earn to give him the $65 he needs to buy a new hockey stick?

7. **4.OA.4**
   List all of the factor pairs for the number 24:

8. **4.OA.5**
   Find the rule and complete the table:
   \[
   \begin{array}{|c|c|}
   \hline
   \text{In} & \text{Out} \\
   \hline
   2 & 12 \\
   3 & ____ \\
   4 & 24 \\
   ____ & 30 \\
   6 & ____ \\
   \hline
   \end{array}
   \]

9. **4.OA.5**
   Rule: Starting with the number 7, create a pattern that multiplies each number by 4. Stop when you have 4 numbers.
   ____ , ____ , ____ , ____