Problem Solving: Make an Organized List

Make an organized list to solve.

1. List all the 3-digit numbers that fit these clues.
   - The hundreds digit is less than 3.
   - The tens digit is less than 2.
   - The ones digit is greater than 7.

2. List all the 4-digit numbers that fit these clues.
   - The thousands digit is greater than 8.
   - The hundreds digit is less than 4.
   - The tens and ones digits are the same as the thousands digit.

3. Jim and Sarah are running for class president. Cayla and Daniel are running for vice president. What combinations of president and vice president could there be?

4. List all the ways that you can arrange the letters A, B, and C.

5. **Persevere** What is this 3-digit number?
   - The hundreds digit is 4 greater than 3.
   - The tens digit is 1 more than the hundreds digit.
   - The ones digit is 3 less than the tens digit.

6. In how many ways can you make 30 cents using quarters, dimes, and nickels?
   A 4
   B 5
   C 6
   D 8