

# 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.

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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.

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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?

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

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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.

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6. In how many ways can you make 30 cents using quarters, dimes, and nickels?

- A** 4
- B** 5
- C** 6
- D** 8