

Listing Combinations

List all of the three-digit numbers that have:

- a hundreds digit from this list: 1, 2, 3
- a tens digit from this list: 4, 5
- a ones digit from this list: 6, 7, 8, 9

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$$\begin{array}{ccccccc}
 \square & \times & \square & \times & \square & = & \square \\
 \text{choices for} & & \text{choices} & & \text{choices} & & \text{number of} \\
 \text{the hundreds} & & \text{for the} & & \text{for the} & & \text{three-digit} \\
 \text{digit} & & \text{tens digit} & & \text{ones digit} & & \text{numbers}
 \end{array}$$