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Counting principle with repetition allowed

A toy company is going to issue new ID codes to its employees. Each code will have one letter followed by five digits. The digits 2 and 6 will not be used. So, there are 26 letters and 8 digits that will be used. Assume that the digits can be repeated. How many employee ID codes can be generated?

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$$\begin{array}{r} 26 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 = 851,968 \\ \hline L \quad \# \end{array}$$

Note: The Solve feature is not available to stu

Counting principle with repetition allowed

Suppose each license plate in a certain state has four letters followed by two digits. The letters I, O, Q, and U and the digits 0, 1, 2, and 3 are not used. So, there are 22 letters and 6 digits that are used. Assume that the letters and digits can be repeated. How many license plates can be generated using this format?

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$$\begin{array}{r} 22 \cdot 22 \cdot 22 \cdot 22 \cdot 6 \cdot 6 \\ \hline L \quad L \quad L \quad L \quad \# \quad \# \end{array}$$

0
1
2
3
4
5
6
7
8
9

Counting principle with repetition allowed

Suppose a company needs temporary passwords for the trial of a new time management software. Each password will have two letters followed by two digits. The digits 7, 8, and 9 will not be used. So, there are 26 letters and 7 digits that will be used. Assume that the letters and digits can be repeated. How many passwords can be created using this format?

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$$\begin{array}{r} 26 \cdot 26 \cdot 7 \cdot 7 \\ \hline L \quad L \quad \# \quad \# \end{array}$$

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