141. Thirty items are arranged in a 6-by-5 array as shown.

A$_1$	A$_2$	A$_3$	A$_4$	A$_5$
A$_6$	A$_7$	A$_8$	A$_9$	A$_{10}$
A$_{11}$	A$_{12}$	A$_{13}$	A$_{14}$	A$_{15}$
A$_{16}$	A$_{17}$	A$_{18}$	A$_{19}$	A$_{20}$
A$_{21}$	A$_{22}$	A$_{23}$	A$_{24}$	A$_{25}$
A$_{26}$	A$_{27}$	A$_{28}$	A$_{29}$	A$_{30}$

Calculate the number of ways to form a set of three distinct items such that no two of the selected items are in the same row or same column.

(A)   200

(B)   760

(C)   1200

(D)   4560

(E)   7200