

$$\textcircled{5} \quad P(A) = \begin{bmatrix} 0.49 \\ 0.05 \\ 0.46 \end{bmatrix} \quad P(B) = \begin{bmatrix} 0.46 & 0.09 & 0.45 \end{bmatrix}$$

$$\textcircled{6} \quad P(A, B) = P(A) \cdot P(B)$$

$$P(A) = \begin{bmatrix} 0.49 \\ 0.05 \\ 0.46 \end{bmatrix} \quad P(B) = \begin{bmatrix} 0.46 \\ 0.09 \\ 0.45 \end{bmatrix}$$

$$\begin{bmatrix} 0.225 & 0.023 & 0.215 \\ 0.044 & 0.004 & 0.041 \\ 0.220 & 0.022 & 0.207 \end{bmatrix}$$

$$P(A, B) \neq P(A) \cdot P(B)$$

$\textcircled{7}$

There is only one condition where the delivery boy can have correct pizzas in correct order. Probability (right order) = $\frac{1}{120}$