

$$1. a_{11} + a_{21} = a_{12} + a_{22} = 1$$

$$(A) AB = \begin{pmatrix} 0.3a_{11} + 0.7a_{12} & 0.6a_{11} + 0.4a_{12} \\ 0.3a_{21} + 0.7a_{22} & 0.6a_{21} + 0.4a_{22} \end{pmatrix} \text{ 各行元素和}=1$$

$$(B) \frac{1}{2}(A + B) = \frac{1}{2} \begin{pmatrix} a_{11} + 0.3 & a_{12} + 0.6 \\ a_{21} + 0.7 & a_{22} + 0.4 \end{pmatrix} \text{ 各行元素和}=1$$

$$(D) A^2 = \begin{pmatrix} a_{11}^2 + a_{12}a_{21} & a_{11}a_{12} + a_{12}a_{22} \\ a_{21}a_{11} + a_{22}a_{21} & a_{21}a_{12} + a_{22}^2 \end{pmatrix} \text{ 各行元素和}=1$$

同理  $B^2$  各行元素和=1

$$\frac{1}{2}(A^2 + B^2) \text{ 各行元素和}=1$$

用刪去法選不合(C)