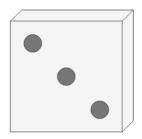


## mobius

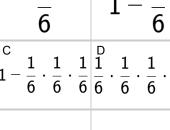
## **Probability - Dice (1), Not All Specific, To Fraction Equation**

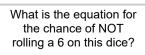


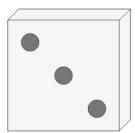
1	What is the equation for
ı	the chance of NOT
	rolling a 3 on this dice?



$$egin{array}{c|cccc} A & rac{1}{6} & B & 1 - rac{1}{6} & 2 \end{array}$$

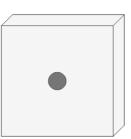






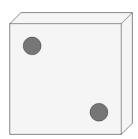
$$\begin{bmatrix} A \\ 1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{bmatrix}$$
  $\begin{bmatrix} B \\ \frac{1}{6} \end{bmatrix}$ 

$$^{\mathtt{c}}$$
  $1-rac{1}{6}$   $\left[rac{1}{6}\cdotrac{1}{6}\cdotrac{1}{6}\cdotrac{1}{6}
ight]$ 



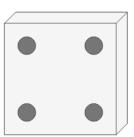
$$\begin{vmatrix} A \\ 1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{vmatrix} \begin{vmatrix} B \\ \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{vmatrix}$$

$$\begin{bmatrix} 1 - \frac{1}{6} & \frac{1}{6} \end{bmatrix}$$



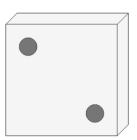
$$\begin{bmatrix} \frac{\mathsf{A}}{\mathsf{1}} \cdot \frac{\mathsf{1}}{\mathsf{6}} \cdot \frac{\mathsf{1}}{\mathsf{6}} \cdot \frac{\mathsf{1}}{\mathsf{6}} \end{bmatrix}^\mathsf{B} \qquad \frac{\mathsf{1}}{\mathsf{6}}$$

$$1 - \frac{1}{6}$$
  $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$ 



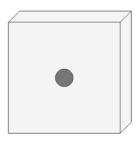
$$\frac{\overset{\mathsf{A}}{1}}{\overset{\mathsf{A}}{6}} \cdot \frac{1}{\overset{\mathsf{A}}{6}} \cdot \frac{1}{\overset{\mathsf{A}}{6}} \cdot \frac{1}{\overset{\mathsf{A}}{6}} \qquad \frac{1}{\overset{\mathsf{A}}{6}}$$

$$\begin{bmatrix} \mathtt{c} \\ \mathtt{1} - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{bmatrix}^{\mathsf{D}} \mathbf{1} - \frac{1}{6} \end{bmatrix}$$



$$1-rac{1}{6}$$
  $\left| 1-rac{1}{6}\cdotrac{1}{6} \cdotrac{1}{6} 
ight|$ 

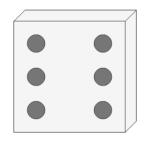
$$\frac{1}{6}$$
  $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$ 



$$\begin{bmatrix} A \\ 1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{bmatrix} \begin{bmatrix} B \\ \frac{1}{6} \end{bmatrix}$$

$$^{\mathtt{C}}1-rac{1}{6}$$
  $^{\mathtt{D}}_{6}\cdotrac{1}{6}\cdotrac{1}{6}\cdotrac{1}{6}\cdotrac{1}{6}$ 

## What is the equation for the chance of NOT rolling a 4 on this dice?



$$\begin{bmatrix} A \\ 1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{bmatrix}$$
  $\begin{bmatrix} B \\ 1 \end{bmatrix}$ 

$$\begin{array}{ccc} & & & \\ & \frac{1}{6} & & \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \end{array}$$