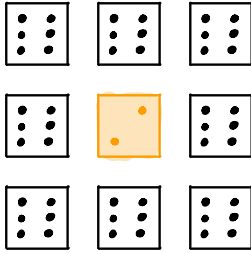


PROB ROLL IS \rightarrow

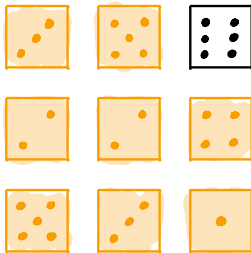
PICK UP DIE	PROB DIE IS \rightarrow SIX	SIX	$\frac{1}{6}$	$\frac{9}{9} \times \frac{1}{6} = 0.17$	MOST PROBABLE OUTCOME: A SIX IS LOST
		NOT 6	$\frac{5}{6}$	$\frac{9}{9} \times \frac{5}{6} = 0.83$	
	NOT SIX	SIX	$\frac{1}{6}$	$\frac{0}{9} \times \frac{1}{6} = 0.00$	
		NOT SIX	$\frac{5}{6}$	$\frac{0}{9} \times \frac{5}{6} = 0.00$	



PROB ROLL IS \rightarrow

PICK UP DIE	PROB DIE IS \rightarrow SIX	SIX	$\frac{1}{6}$	$\frac{8}{9} \times \frac{1}{6} = 0.15$	MOST PROBABLE OUTCOME: A SIX IS LOST
		NOT 6	$\frac{5}{6}$	$\frac{8}{9} \times \frac{5}{6} = 0.74$	
	NOT SIX	SIX	$\frac{1}{6}$	$\frac{1}{9} \times \frac{1}{6} = 0.02$	
		NOT SIX	$\frac{5}{6}$	$\frac{1}{9} \times \frac{5}{6} = 0.09$	

AFTER MANY ROLLS...



PROB ROLL IS \rightarrow

PICK UP DIE	PROB DIE IS \rightarrow SIX	SIX	$\frac{1}{6}$	$\frac{1}{9} \times \frac{1}{6} = 0.02$	MORE PROBABLE TO GAIN 6 THAN LOSE 6
		NOT 6	$\frac{5}{6}$	$\frac{1}{9} \times \frac{5}{6} = 0.09$	
	NOT SIX	SIX	$\frac{1}{6}$	$\frac{8}{9} \times \frac{1}{6} = 0.15$	
		NOT SIX	$\frac{5}{6}$	$\frac{8}{9} \times \frac{5}{6} = 0.74$	