

18. Poss outcomes = $6 \times 6 = 36$

to find probability the sum > 8

Fav - outcomes = Sum > 8 and Sum 9 to 12

Sum = 9 $\Rightarrow (3,6) (4,5) (5,4) (6,3) \Rightarrow 4$ outcomes

Sum = 10 $\Rightarrow (4,6) (6,4) ~~(5,5)~~ (5,5) \Rightarrow 3$ outcomes

Sum = 11 $\Rightarrow (5,6) (6,5) \Rightarrow 2$ outcomes

Sum = 12 $\Rightarrow (6,6) \Rightarrow 1$ outcome.

$$P(\text{Sum} > 8) = \frac{4+3+2+1}{36} = \frac{10}{36} = \boxed{0.27}$$