P(rolling higher than a 7 on the sum of 2 dice)

Method | Counting outcomes

DIE 2

1 2 3 4 5 6

1 2 3 4 5 6 7

2 4 6 7

1 2 3 4 5 6 7 2 3 4 5 6 7 8 3 4 5 6 7 8 9 10 3 4 5 6 7 8 9 10 6 7 8 9 10 11 6 7 8 9 10 11

There are 36 possible outcomes
There are 15 successful outcomes

$$f = \frac{15}{36}$$

We have 
$$2p + \frac{6}{36} = 1$$

$$\Rightarrow 2\rho = \frac{30}{36}$$

$$\Rightarrow \rho = \frac{15}{36}$$