# Problem of the Week Problem C Just Sum Dice 

Ahmik created a game for his school's carnival where players roll two dice and find the sum of the two numbers on the top faces. If this sum is a perfect square or a prime number, they win a prize. To make it more interesting, Ahmik made the two dice using a 3 D printer so that they each have the numbers $1,2,3,5,7$, and 9 on their faces. One of the dice is purple and the other is green.
What is the probability that a player will win a prize after rolling the dice once?


Note:
A square of any integer is called a perfect square. The number 25 is a perfect square since it can be expressed as $5^{2}$ or $5 \times 5$.
A prime number is an integer greater than 1 that has only two positive divisors; 1 and itself. The number 17 is prime because its only positive divisors are 1 and 17.

