

## Theoretical Probability with Dice

<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
A fair, six-sided dice numbered 1 to 6 is rolled once. What is the probability of the dice landing on a 5?	A fair four-sided dice numbered 1 to 4 is rolled once. What is the probability of the dice landing on a 3?	A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of the dice landing on a 7?	A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of the dice landing on a 5 or 6?
<b>(e)</b>	<b>(f)</b>	<b>(g)</b>	<b>(h)</b>
A fair, six-sided dice numbered 1 to 6 is rolled once. What is the probability of the dice landing on an odd number?	A fair four-sided dice numbered 1 to 4 is rolled once. What is the probability of rolling a number less than 3?	A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of rolling a number less than 7?	A fair, six-sided dice numbered 1 to 6 is rolled once. What is the probability of the dice landing on a number that is not six?
<b>(i)</b>	<b>(j)</b>	<b>(k)</b>	<b>(l)</b>
A fair, six-sided dice numbered 1 to 6 is rolled once. What is the probability of the dice landing on a prime number?	A fair four-sided dice numbered 3, 4, 5 and 6 is rolled once. What is the probability of the dice landing on a multiple of 3?	A fair six-sided dice numbered 1, 1, 1, 2, 2 and 3 is rolled once. What is the probability of rolling a 1?	A fair six-sided dice numbered 1, 1, 1, 2, 2 and 3 is rolled once. What is the probability of rolling a number that is not a 2?
<b>(m)</b>	<b>(n)</b>	<b>(o)</b>	<b>(p)</b>
A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of rolling a square number?	A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of rolling a number that is a factor of 12?	The probability of rolling a 6 on a biased dice is 0.3. What is the probability of not rolling a 6?	If a fair six-sided dice is rolled 60 times, how many times would you expect it to land on a 3?