

# Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 73
455	<p><b>Example 11.2</b></p> <p>Suppose a pair of unbiased dice is rolled once. If <math>X</math> denotes the total score of two dice, write down (i) the sample space (ii) the values taken by the random variable <math>X</math>, (iii) the inverse image of 10, and (iv) the number of elements in inverse image of <math>X</math>.</p>
456	<p><b>Example 11.3</b></p> <p>An urn contains 2 white balls and 3 red balls. A sample of 3 balls are chosen at random from the urn. If <math>X</math> denotes the number of red balls chosen, find the values taken by the random variable <math>X</math> and its number of inverse images.</p>
457	<p><b>Example 11.4</b></p> <p>Two balls are chosen randomly from an urn containing 6 white and 4 black balls. Suppose that we win ₹ 30 for each black ball selected and we lose ₹ 20 for each white ball selected. If <math>X</math> denotes the winning amount, then find the values of <math>X</math> and number of points in its inverse images.</p>
458	<p><b>EXERCISE 11.1</b></p> <p>1. Suppose <math>X</math> is the number of tails occurred when three fair coins are tossed once simultaneously. Find the values of the random variable <math>X</math> and number of points in its inverse images.</p>
459	<p>2. In a pack of 52 playing cards, two cards are drawn at random simultaneously. If the number of black cards drawn is a random variable, find the values of the random variable and number of points in its inverse images.</p>
460	<p>3. An urn contains 5 mangoes and 4 apples. Three fruits are taken at random. If the number of apples taken is a random variable, then find the values of the random variable and number of points in its inverse images.</p>