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Probability Assignment

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CONTENTS

I. PROBLEM1

A die has two faces each with number ‘1’, three faces each with number ‘2’ and one face with number ‘3’. If die is rolled once, determine
(i) P(2)
(ii) P(1 or 3)
(iii) P(not 3)

II. SOLUTION

Total number of faces = 6
i) Number faces with number ’2’ = 3

$$P(2) = \frac{3}{6} = \frac{1}{2}$$

ii) P(1 + 3) = P(1) + P(3) - P(13)

Number faces with number ’1’ = 2

$$P(1) = \frac{2}{6}$$

Number faces with number ’3’ = 1

$$P(3) = \frac{1}{6}$$

$$P(13) = 0$$

So, $P(1 + 3) = \frac{2}{6} + \frac{1}{6} - 0 = \frac{3}{6} = \frac{1}{2}$

iii) P(3’) = 1 - P(3)

Number faces with number ’3’ = 1

$$P(3) = \frac{1}{6}$$

$$P(3') = 1 - \frac{1}{6} = \frac{5}{6}$$