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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XI) textbook

Chapter 16.

PROBABILITY

3. 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) $P(1 \text{ or } 3)$ (iii) $P(\text{not } 3)$

SOLUTION:

3. In the die two faces are with number '1', three faces are with number '2' and one face is with number '3'

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

$$\therefore (i) P(2) = \frac{1}{2}$$

(ii) $P(1 \text{ or } 3) = P(1) + P(3)$ [The events are mutually exclusive]

$$= \frac{1}{3} + \frac{1}{6} = \frac{1}{2}$$

$$(iii) P(\text{not } 3) = 1 - P(3) = 1 - \frac{1}{6} = \frac{5}{6}$$

Please do not copy the answer given here

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