Probability

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SOLUTIONS

1. Total number of balls = 40 Number of times he hits boundary = 8 So, required probability $=\frac{8}{40}=\frac{1}{5}=0.2$ 2. Total number of youngsters surveyed = 400 Number of youngsters having voter ID card = 191 \therefore Number of youngsters without ID card = 400 - 191 = 209

So, required probability = $\frac{209}{400}$ = 0.52 (approx.)

3. The total number of trials = 1000.

(i) The frequency of a tyre that needs to be replaced before it covers 4000 km = 20.

So, *P*(tyre to be replaced before it covers 4000 km)

$$=\frac{20}{1000}=0.02$$

(ii) The frequency of a tyre that it will last more than 9000 km = 325 + 445 = 770.

So, $P(\text{tyre will last more than 9000 km}) = \frac{770}{1000} = 0.77$

(iii) The frequency of a tyre that requires replacement between 4000 km and 14000 km = 210 + 325 = 535.

So, *P*(tyre requiring replacement between 4000 km and

$$14000 \text{ km}) = \frac{535}{1000} = 0.535$$

4. Total number of classes = 6

Number of classes in which attendance percentage is more than 75% = 3

Required probability = $\frac{3}{6} = \frac{1}{2}$

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