

## NCERT/CBSE MATHEMATICS CLASS 10 textbook(OPTIONAL EXERCISE)

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Answers to NCERT/CBSE MATHEMATICS Class 10(Class XI)textbook OPTIONAL EXERCISE

CHAPTER FIFTEEN  
PROBABILITY  
EXERCISES

5. A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is  $\frac{2}{3}$ . Find the number of blue marbles in the jar.

**SOLUTION :**

The total number of marbles =24

let the number of green marbles = x

probability that marble is green =  $\frac{x}{24}$

But, probability that marble is green is given to be =  $\frac{2}{3}$

$$\Rightarrow \frac{x}{24} = \frac{2}{3}$$

$$\Rightarrow \frac{x}{8} = 2$$

$$\Rightarrow x = 16$$

$\therefore$  the number of green marbles in the jar = 16

the number of blue marbles in the jar =  $24 - 16 = 8$

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Please do not copy the answer given here

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