EduSahara™ Assignment

Name : Die Problems

Chapter : Probability

Grade : SSC Grade X



1. Two unbiased dice are thrown simultaneously. Find the probability of getting a doublet.

   (i) $\frac{2}{7}$ (ii) 0 (iii) $\frac{5}{6}$ (iv) $\frac{1}{6}$ (v) $\frac{1}{3}$

2. Two unbiased dice are thrown simultaneously. Find the probability of getting 7 as the sum of the two numbers on the dice.

   (i) $\frac{1}{6}$ (ii) $\frac{2}{7}$ (iii) 0 (iv) $\frac{5}{6}$ (v) $\frac{1}{3}$

3. Two unbiased dice are thrown simultaneously. Find the probability of getting at least 3 as the sum of the two numbers on the dice.

   (i) $\frac{35}{36}$ (ii) $\frac{17}{18}$ (iii) $\frac{36}{37}$ (iv) 1 (v) $\frac{1}{36}$

4. A die is thrown twice. What is the probability that 1 will come up atleast once?

   (i) $\frac{25}{36}$ (ii) $\frac{12}{37}$ (iii) $\frac{11}{36}$ (iv) $\frac{1}{3}$ (v) $\frac{5}{18}$

5. A die is thrown twice. What is the probability that 1 will not come up either time?

   (i) $\frac{13}{18}$ (ii) $\frac{2}{3}$ (iii) $\frac{26}{37}$ (iv) $\frac{25}{36}$ (v) $\frac{11}{36}$

6. An unbiased die is thrown once. Find the probability of getting a prime number?

   (i) $\frac{5}{6}$ (ii) $\frac{3}{4}$ (iii) $\frac{4}{5}$ (iv) $\frac{2}{3}$ (v) $\frac{1}{2}$

7. An unbiased die is thrown once. Find the probability of getting an even number?

   (i) $\frac{5}{6}$ (ii) $\frac{1}{2}$ (iii) $\frac{2}{3}$ (iv) $\frac{4}{5}$ (v) $\frac{3}{4}$

8. An unbiased die is thrown once. Find the probability of getting a 1?

   (i) $\frac{5}{6}$ (ii) 0 (iii) $\frac{1}{3}$ (iv) $\frac{2}{7}$ (v) $\frac{1}{6}$

9. An unbiased die is thrown once. Find the probability of getting a number greater than 3?

   (i) $\frac{1}{2}$ (ii) $\frac{5}{6}$ (iii) $\frac{3}{4}$ (iv) $\frac{4}{5}$ (v) $\frac{2}{3}$

10. An unbiased die is thrown once. Find the probability of getting a number less than 6?

    (i) 1 (ii) $\frac{1}{6}$ (iii) $\frac{2}{3}$ (iv) $\frac{5}{6}$ (v) $\frac{6}{7}$

11. An unbiased die is thrown once. Find the probability of getting a number between 1 and 5?

(i) $\frac{3}{4}$ (ii) $\frac{2}{3}$ (iii) $\frac{5}{6}$ (iv) $\frac{4}{5}$ (v) $\frac{1}{2}$

12. When two dice are thrown simultaneously, how many elementary events are possible?

(i) 34 (ii) 39 (iii) 35 (iv) 37 (v) 36

13. A die is thrown twice. What is the probability that 4 will not come up either time?

(i) $\frac{25}{36}$ (ii) $\frac{2}{3}$ (iii) $\frac{26}{37}$ (iv) $\frac{11}{36}$ (v) $\frac{13}{18}$

14. A die is thrown twice. What is the probability that 1 will come atleast once?

(i) $\frac{25}{36}$ (ii) $\frac{1}{3}$ (iii) $\frac{5}{18}$ (iv) $\frac{12}{37}$ (v) $\frac{11}{36}$

## Assignment Key

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|---|---|---|---|---|---|
| 1) (iv) | 2) (i) | 3) (i) | 4) (iii) | 5) (iv) | 6) (v) |
| 7) (ii) | 8) (v) | 9) (i) | 10) (iv) | 11) (v) | 12) (v) |
| 13) (i) | 14) (v) | | | | |