EduSahara™ Learning Center Assignment

Grade : Class X, SSC
Chapter : Probability
Name : Die Problems

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

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

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

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

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3. Two unbiased dice are thrown simultaneously. Find the probability of getting at least 12 as the sum of the two numbers on the dice

   (i) $\dfrac{1}{36}$ (ii) $\dfrac{35}{36}$ (iii) $\dfrac{2}{37}$ (iv) 0 (v) $\dfrac{1}{18}$

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4. A die is thrown twice. What is the probability that 5 will come up atleast once?

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

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

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

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

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

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

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

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

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

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9. An unbiased die is thrown once. Find the probability of getting a number greater than 5?

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

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

    (i) $\dfrac{1}{2}$ (ii) $\dfrac{1}{3}$ (iii) 0 (iv) $\dfrac{2}{3}$

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11. An unbiased die is thrown once. Find the probability of getting a number between 3 and 5?

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

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

    (i)   (ii)   (iii)   (iv)   (v)

35 37 33 38 36

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13. A die is thrown twice. What is the probability that 6 will not come up either time?

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

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14. A die is thrown twice. What is the probability that 6 will come atleast once?

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

Assignment Key

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