EduSahara™ Learning Center Assignment

Grade : Class VII, CBSE
Chapter : Data Handling
Name : Chance and Probability
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1. A coin is tossed 50 times and tail appears 25 times. If the coin is tossed again, what is the probability of getting a head?

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

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2. A coin is tossed 60 times and head appears 40 times. If the coin is tossed again, what is the probability of getting a tail?

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

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3. Two coins are tossed simultaneously 150 times and it was observed that both heads appeared 90 times. If two coins are tossed simultaneously at random, what is the probability of getting both heads?

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

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4. Two coins are tossed simultaneously 140 times and it was observed that both tails appeared 120 times. If two coins are tossed simultaneously at random, what is the probability of getting both tails?

(i) $\frac{5}{7}$ (ii) 1 (iii) $\frac{7}{8}$ (iv) $\frac{1}{7}$ (v) $\frac{6}{7}$

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5. A die is thrown 50 times. Prime numbers appeared on the upper face 30 times. If a die is thrown at random, what is the probability of getting a prime number?

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

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6. A survey of 70 men showed that only 40 of them know French. Out of these men, if one is selected at random, what is the probability that the selected man knows French?

(i) $\frac{5}{7}$ (ii) $\frac{4}{7}$ (iii) $\frac{5}{8}$ (iv) $\frac{3}{7}$

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7. On a particular day, at a crossing in a city, the various types of 120 vehicles going past during a time-interval were observed as under:

Type of Vehicle	Three-wheeler	Four-wheeler	Two-wheeler
Frequency	35	40	45

Out of these vehicles, if one is choosen at random, what is the probability that the choosen vehicle is a 'Four-wheeler' ?

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

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8. The following table shows the blood-groups of 387 students of a class.

Blood group	AB	A	O	B
Number of students	63	90	99	135

One student of the class is choosen at random. What is the probability that the choosen student has blood group 'O' ?

(i) $\frac{12}{43}$ (ii) $\frac{10}{43}$ (iii) $\frac{32}{43}$ (iv) $\frac{3}{11}$ (v) $\frac{11}{43}$

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9. A single unbiased coin is tossed. Find the probability of getting a head

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

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10. Two unbiased coins are tossed simultaneously. Find the probability of getting exactly one head

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

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11. Two unbiased coins are tossed simultaneously. Find the probability of getting at least one head

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

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12. Two unbiased coins are tossed simultaneously. Find the probability of getting at least two heads

(i) 0 (ii) $\frac{3}{4}$ (iii) $\frac{1}{4}$ (iv) $\frac{2}{5}$ (v) $\frac{1}{2}$

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13. Two unbiased coins are tossed simultaneously. Find the probability of getting at most one head

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

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14. Two unbiased coins are tossed simultaneously. Find the probability of getting no head

(i) $\frac{1}{4}$ (ii) $\frac{1}{2}$ (iii) $\frac{3}{4}$ (iv) $\frac{2}{5}$ (v) 0

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15. Three unbiased coins are tossed simultaneously. Find the probability of getting exactly one head

(i) $\frac{1}{4}$ (ii) $\frac{4}{9}$ (iii) $\frac{3}{8}$ (iv) $\frac{5}{8}$ (v) $\frac{1}{2}$

Assignment Key

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