



SNAP PYQs on Probability with Solutions: Practice SNAP Previous Year Questions

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Probability is an important topic in the Quantitative Ability and Data Interpretation section in SNAP exam. Practising this topic will increase your score overall and make your conceptual grip on SNAP exam stronger.

This article gives you a full set of SNAP Probability previous year questions (PYQs) with explanations for effective preparation. Practice of SNAP PYQs on Quantitative Ability and Data Interpretation including Probability questions regularly will improve accuracy, speed, and confidence in the [SNAP 2025](#) exam.

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SNAP PYQs on Probability with Solutions

1. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5 ?

A $\frac{1}{2}$

B $\frac{2}{5}$

C $\frac{8}{15}$

D $\frac{3}{5}$

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2. How many different words can be formed with the word CUSTOM with a condition that the word should begin with M?

A 720



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☐ B 540

☐ C 120

☐ D 180

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3. ABC Paints Ltd. is planning to create different combination of dyes. The research team has decided they will be using five different green dyes, three different red dyes and four different blue dyes. How many combinations of dyes can be created by ABC Paints Ltd., by including at least one blue and one green dye?

☐ A 5720

☐ B None of the option is correct

☐ C 60

☐ D 31

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4. Robot A, B and C make 25%, 35% and 40% of circuit boards, with defect rates 5%, 4% and 2% respectively. If one board is picked at random, what is the probability it is defective?

☐ A 0.034

☐ B 0.34

☐ C 0.66

☐ D 0.066

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5. Big Bang Theory cast wishes to find out the number of ways in which the word ASTRONAUT can be scrambled. They find that the number of ways in which it can be put in an unscrambling puzzle is?

☐ A 362880

☐ B 181440

☐ C 60480

☐ D 90720

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6. There are six tickets to the theater, four of which are for seats in the front row. 3 tickets are selected at random. What is the probability that two of them are for the front row ?

☐ A 0.6

☐ B 0.7

☐ C 0.9

☐ D $\frac{1}{3}$

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7. Five students are to be arranged on five chairs for a photograph. Three of these are girls and the rest are boys. Find out the total number of ways in which three girls are together.

☐ A 36

☐ B 84

☐ C 100

☐ D 120

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8. In a box, there are 3 red marbles, 3 blue marbles and 7 green marbles. If 2 marbles are picked randomly, find the probability of picking two non-green marbles.

☐ A $\frac{3}{26}$

☐ B $\frac{5}{26}$

☐ C $\frac{9}{26}$

☐ D $\frac{7}{26}$

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9. A bag has a total of 108 toys. These toys are of 3 different colours: black, green and white. If a toy is taken out randomly, the probabilities of getting a black and a green are $\frac{1}{3}$ and $\frac{4}{9}$ respectively. What is the number of white toys?

☐ A 36

☐ B 24

☐ C 51

☐ D None of these

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10. Sonal and Meenal appear in an interview for same post having two vacancies. If $\frac{1}{7}$ is Sonal's probability of selection and $\frac{1}{5}$ is Meenal's probability of selection then what is the probability that only one of them is selected?

☐ A $\frac{1}{7}$

☐ B $\frac{2}{7}$

☐ C $\frac{3}{5}$

☐ D $\frac{1}{5}$

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11. The number of ways that 5 Marathi, 3 English and 3 Tamil books be arranged if the books of each language are to be kept together is

☐ A 25920

☐ B 9250

☐ C 5920

☐ D 7480

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12. Tickets numbered 1 to 20 are mixed up and one ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

☐ A $\frac{1}{2}$

☐ B $\frac{2}{5}$

☐ C $\frac{8}{15}$

☐ D $\frac{9}{20}$

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13. There are 4 positive numbers, $\frac{1}{4}$ th of the average of all the numbers is 24 less than the value of the highest number. Average of the first 3 numbers is 32. Find the highest number.

☐ A None

☐ B 32

☐ C 36

☐ D 34

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14. A box contains 3 red, 4 yellow and $(x + 1)$ green balls. If two balls are taken out, then the probability that both the balls being green is $\frac{5}{33}$. Find the value of x?

☐ A 3

☐ B 4

☐ C 2

D 1

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15. To select a group, an unbiased dice is rolled out. If the dice shows 1 then group x is chosen. If 2 or 3 is shown, group y is chosen and if 4, 5 or 6 is shown, group z is chosen. Group x has 3 girls and 2 boys, group y has 3 girls and 4 boys, and group z has 4 girls and 5 boys. The dice is rolled out and the group is chosen, if a girl is chosen then find the probability that it is chosen from group y.

A $\frac{90}{293}$

B $\frac{63}{293}$

C $\frac{7}{90}$

D None

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