





MATHS

BOOKS - MAHENDRA

PROBABILITY



1. In a question there are 5 -options in which one is right and remaining 4 are wrong ,if one option is to be selected randomly ,what is the probability that -

The answer will be right



2. In a question there are 5 -options in which one is right and remaining 4 are wrong ,if one option is to be selected randomly ,what is the probability that -

The question will be wrong

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3. Find the probability of head when single coin is tossed .
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4. Find the probability of 1 head when two

coins are tossed simulataneously.

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5. Find the probalility of at least one head

when two coins are tossed simultaneously.

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6. Find the probalility of at most one head

when two coins are tossed simulataneously.



7. Find the probability of getting a multiple of

3 when one dice is thrown once.

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8. Find the probability of that number which is

multiple of 2 when one dice is throuwn once.

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9. Find the probability that sum on both faces

is 9 when two dice are thrown simultaneously.

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10. Find the probability that sum is divisible by

4 when two dice are thrown simultaneously.



11. Find probability that sum is a prime no . & less than 8 when two dice are thrown simultaneously .



12. A box contains 5 red 4 green & 6 black balls

.If 3 balls are drawn at random.

Find the probability that all balls are red colour.



13. There are 5 red and 7 green balls in a bag. Three balls are drawn from it. Find the probability that 1 ball is red & 2 balls are green

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14. There are 5 red and 7 white balls in a bag.

Find the probability that none ball is red ?

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15. There are 5 red and 7 white balls in a bag. Find the probability that at least one ball is red .



16. A bag contains 6 white balls & 4 black balls

. 2 balls are randomly taken away .Find the

probability that they are of the same colour .



17. A box contains 4 black , 3 red & 2 yellow balls .Two balls are drawn at randomly .What is probanility that they are not of the same colour ?



18. A basket contains 3 blue ,4 green & 5 red

balls .If three balls are picked at random ,what

is the probability that at least one is red ?



19. A bag contains 7 white & 3 black balls. Two balls are drawn at random one after the other without replacedment. Find the probability that balls drawn are black .

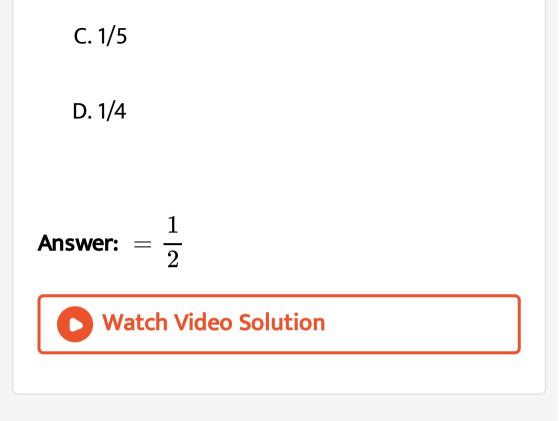
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20. What is the probability of each outcome,

when a coin is tossed?

A. 1/2

B. 1/3



21. From a well-shuffled pack of 52 cards, a card

is drawn at random. Find the probability that

the drawn card is a king or a queen.



22. From a well-shuffled pack of 52 cards, a card is drawn at random. Find the probability that the drawn card is a king or a queen.





1. In a simultaneous toss of two coins ,find the probability of tails .

A.
$$\frac{1}{2}$$

B.
$$\frac{1}{4}$$

C. $\frac{3}{4}$
D. $\frac{1}{3}$

Answer: B

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2. In a simultaneous toss of two find the probability of exactly 1 tail .

A.
$$\frac{1}{2}$$

B.
$$\frac{1}{4}$$

C. $\frac{3}{4}$
D. $\frac{1}{8}$

Answer: A

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3. In a simultaneous toss of two coins ,find the

probability of tails .

A.
$$\frac{3}{4}$$

B.
$$\frac{1}{2}$$

C. $\frac{1}{4}$
D. $\frac{1}{8}$

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4. Three coins are tossed .Find the probability

of heads .

A.
$$\frac{1}{6}$$

B.
$$\frac{1}{8}$$

C. $\frac{1}{4}$
D. $\frac{1}{3}$

Answer: B

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5. Three coins are tossed .Find the probability

of exactly 2 heads .

A.
$$\frac{3}{8}$$

B.
$$\frac{1}{2}$$

C. $\frac{1}{8}$
D. $\frac{1}{4}$

Answer: A

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6. Three coins are tossed .Find the probability of no heads .

A. $\frac{3}{8}$

B.
$$\frac{1}{8}$$

C. $\frac{1}{2}$
D. $\frac{2}{3}$

Answer: B

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7. Three unbiased coins are tossed. Find the probability of getting atleast two heads.

A.
$$\frac{1}{2}$$

B.
$$\frac{1}{4}$$

C. $\frac{3}{4}$
D. $\frac{2}{3}$

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8. Four coins are tossed once .Find the probability of exactly 3 tails.

A.
$$\frac{1}{16}$$

B.
$$\frac{1}{4}$$

C. $\frac{5}{16}$
D. $\frac{4}{3}$

Answer: B

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9. Four coins are tossed once .Find the probability of exactly 2 tail .

A. A)
$$\frac{1}{16}$$

B. B)
$$\frac{1}{8}$$

C. C) $\frac{3}{8}$
D. D) $\frac{5}{16}$

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10. In a single throw of two dice .Find the probability of doublet ?

A.
$$\frac{1}{6}$$

B.
$$\frac{5}{6}$$

C. $\frac{1}{9}$
D. $\frac{1}{18}$

Answer: A

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11. Two unbiased dice are rolled.Find the probability of getting a multiple of 2 on one die and a multiple of 3 on the other

A.
$$\frac{5}{36}$$

B. $\frac{25}{36}$
C. $\frac{11}{36}$
D. $\frac{1}{9}$



12. Two unbiased dice are rolled.Find the probability of getting a multiple of 2 on one die and a multiple of 3 on the other

A.
$$\frac{5}{36}$$

B. $\frac{25}{36}$
C. $\frac{11}{36}$
D. $\frac{1}{9}$



13. The letters of word SOCIETY are placed in a row .What is the probability that three vowels come together ?

A.
$$\frac{3}{7}$$

B. $\frac{2}{7}$
C. $\frac{1}{7}$
D. $\frac{4}{7}$

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14. Find the probability that in a random arrangement of letters of the words UNIVERSITY two I's do not come together.

A. $\frac{4}{5}$ B. $\frac{1}{5}$ C. $\frac{3}{5}$ D. $\frac{2}{3}$

Answer: A



15. If letters of the word PENCIL are arranged in random order ,What is the probability that N is ALWAYS next to E ?

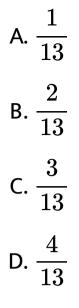
A.
$$\frac{1}{6}$$

B. $\frac{5}{6}$
C. $\frac{1}{3}$
D. $\frac{2}{3}$

Answer: A



16. What is the probability that one card drawn at random from the pack of playing cards may be either a queen or an ace ?



Answer: B



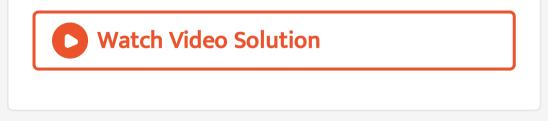
17. In a class of 25 students with roll numbers 1 to 25 ,a student is picked up at random to answer a question .Find the probability that the roll number of the selected student is

either multiple of 5 or 7.

A. A)
$$\frac{6}{25}$$

B. B) $\frac{4}{25}$
C. C) $\frac{8}{25}$
D. D) $\frac{7}{25}$

Answer: C



18. A card is drawn from a pack of 52 cards .find the probability of getting spade or ace or red card.

A.
$$\frac{9}{13}$$

B. $\frac{4}{13}$
C. $\frac{11}{13}$
D. $\frac{10}{13}$

Answer: D



19. Find bag contains 4 white and 2 black balls .Another contains 3 white and 5 black balls .One ball is drawn from each bag .

Find the probability that both are white

A.
$$\frac{1}{2}$$

B. $\frac{1}{3}$
C. $\frac{1}{4}$
D. $\frac{3}{4}$

Answer: C



20. Find bag contains 4 white and 2 black balls.Another contains 3 white and 5 black balls.One ball is drawn from each bag .Find the probability that both are black .

A.
$$\frac{5}{24}$$

B. $\frac{19}{24}$
C. $\frac{11}{24}$
D. $\frac{1}{24}$

Answer: A



21. A bag contains 4 white and 2 black balls.Another contains 3 white and 5 black balls.One ball is drawn from each bag .Find the probability that one is white and oneis black .

A.
$$\frac{11}{24}$$

B. $\frac{13}{24}$

C.
$$\frac{1}{2}$$

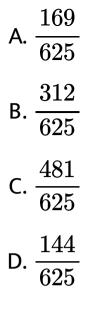
D. $\frac{1}{6}$

Answer: B



22. An urn contains 25 balls numbered 1 to 25 .Suppose an odd number is considered a success Two balls are drawn from the urn with replacement.

Find the probability of getting two sucesses.



Answer: A



23. An urn contains 25 balls numbered 1 to 25

.Suppose an odd number is considered a

success Two balls are drawn from the urn with

replacement.

Find the probability of getting two sucesses.

A.
$$\frac{169}{625}$$

B. $\frac{312}{625}$
C. $\frac{481}{625}$
D. $\frac{144}{625}$

Answer: B



24. An urn contains 25 balls numbered 1 to 25 .Suppose an odd number is considered a success Two balls are drawn from the urn with replacement.

Find the probability of getting at least one success.

A.
$$\frac{169}{625}$$

B. $\frac{312}{625}$
C. $\frac{481}{625}$
D. $\frac{144}{625}$



25. An urn contains 25 balls numbered 1 to 25 .Suppose an odd number is considered a success Two balls are drawn from the urn with replacement.

Find the probability of getting no success .

A.
$$\frac{169}{625}$$

B. $\frac{312}{625}$

C.
$$\frac{481}{625}$$

D. $\frac{144}{625}$

Answer: D



26. From a pack of cards two are drawn the first being replaced before the second is drawn Find the probability that the first is a diamond and the second is a king .

A.
$$\frac{3}{52}$$

B. $\frac{1}{26}$
C. $\frac{1}{52}$
D. $\frac{1}{4}$



27. A husband and wife appear in an interview for two vacancies in the same post .The probability of husband 's selection is 1/7 and

that of wife's 1/5

What is the probability that only one of them

will be selected ?

A.
$$\frac{2}{7}$$

B. $\frac{1}{35}$
C. $\frac{24}{35}$
D. $\frac{11}{35}$

Answer: A

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28. A husband and wife appear in an interview for two vacancies in the same post .The probability of husband 's selection is 1/7 and that of wife's 1/5

What is the probability that both of them will be selected ?

A.
$$\frac{2}{7}$$

B. $\frac{1}{35}$
C. $\frac{24}{35}$
D. $\frac{11}{35}$

Answer: B



29. A husband and wife appear in an interview for two vacancies in the same post .The probability of husband 's selection is 1/7 and that of wife's 1/5 What is the probability that none of them will be selected ?

A.
$$\frac{2}{7}$$

B.
$$\frac{1}{35}$$

C. $\frac{24}{35}$
D. $\frac{11}{35}$

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30. A husband and wife appear in an interview for two vacancies in the same post .The probability of husband 's selection is 1/7 and that of wife's 1/5

What is the probability that at least one of

them will selected ?

A.
$$\frac{2}{7}$$

B. $\frac{1}{35}$
C. $\frac{24}{35}$
D. $\frac{11}{35}$

Answer: D

