



MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

DATA HANDLING-IV (PROBABILITY)

Others

1. Three unbiased coins are tossed together.

Find the probability of getting:

all heads

(ii) two heads

one head

(iv) at least two heads



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2. Find the probability that a leap year, selected at random, will contain 53 Sundays.



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3. What is the probability that a number selected from the number 1,2,3..25, is prime number, when each of the given numbers is equally likely to be selected?



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4. Tickets numbered from 1 to 20 are mixed up together and then a ticket is drawn at random. What is the probability that the ticket has a number which is a multiple of 3 or 7?



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5. One card is drawn from a pack of 52 cards; each of the 52 cards being equally likely to be drawn. Find the probability that the card drawn is: (i) an ace (ii) red (iii) either red or king (iv) red and a king (v) a face card (vi) a red face card (vii) '7' of spades (viii)'10' of a black suit



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6. One card is drawn from a pack of 52 cards, each of the 52 cards being equally likely to be drawn. Find the probability that

(i) the card drawn is: a face card

(ii) a red face card

(iii) '2' of spades

(iv) '10 of a black suit



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7. The king, queen and jack of clubs are removed from a deck of 52 playing cards and the well shuffled. One card is selected from the remaining cards. Find the probability of getting.

(i) a heart

(ii) a king

(iii) a club

(iv) the 10 of hearts



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8. A bag contains 3 red and 2 blue marbles. A marble is drawn at random. What is the probability of drawing a blue marble?



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9. It is known that a box of 600 electric bulbs contains 12 defective bulbs. One bulb is taken out at random from this box. What is the probability that it is a non-defective bulb?



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10. 17 cards numbered 1,2,3....., 17 are put in a box and mixed thoroughly. One person draws a card from the box. Find the prob

(i) the card is: odd ,

the card is: even

(ii) a prime

(iii) divisible by 3

(iv)divisible by 3 and 2 both



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11. Cards marked with the numbers 2 to 101 are placed in a box and mixed thoroughly. One card is drawn from this box. Find the probability that the number on the card is:

(i) a number which is a perfect square

(ii) a prime number less than 20.



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12. A bag contains 5 red balls, 8 white balls, 4 green balls and 7 black balls. If one ball is

drawn at random, find the probability that it is:

(i) black

(ii) red

(iii) not green



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13. Two dice are thrown simultaneously: Find the probability of its occurrence is

An even number as the sum

The sum as a prime number

A total of at least 10

A doublet of even number

A multiple of 2 on one dice and a multiple of 3 on the other dice.

Same number on both dice

A multiple of 3 as the sum



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14. The probability that it will rain tomorrow is 0.85. What is the probability that it will not rain tomorrow?



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15. A die is thrown. Find the probability of getting:

(i) a prime number

(ii) 2 or 4

(iii) a multiple of 2 or 3



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16. In a simultaneous thrown of a pair of dice, find the probability of getting:

(i) 8 as the sum

(ii) a doublet

(iii) a doublet of prime number

(iv) a doublet of odd number



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17. Three coins are tossed together. Find the probability of getting:

(i) exactly two heads

(ii) at least two heads

(iii) at least one head and one tail

(iv) no tails



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18. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is

(i) a ten

(ii) a spade

(iii) a black card

(iv) the seven of clubs



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19. A bag contains 6 red 8 black and 4 white balls. A ball is drawn at random. What is the probability that ball drawn is not black?



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20. A bag contains 3 red balls, 5 black balls and 4 white balls. A ball is drawn at random from the bag. What is the probability that the ball drawn is:

(i) white?

(ii) red?

(iii) black?

(iv) not red?



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21. What is the probability that a number selected from the numbers $1, 2, 3, \dots, 15$ is a multiple of 4?



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22. A bag contains 6 red 8 black and 4 white balls. A ball is drawn at random. What is the probability that ball drawn is not black?



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23. A bag contains 5 white and 7 red balls. One ball is drawn at random. What is the probability that ball drawn is white?



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24. A bag contains 3 red balls and 5 black balls.

A ball is drawn at random from the bag. What

is the probability that the ball drawn is:

(a) red

(b) black



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25. A bag contains 5 red marbles, 8 white

marbles, 4 green marbles. What is the

probability that if one marble is taken out of

the bag at random, it will be

(i) red

(ii) white

(iii) not green



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26. If you put 21 consonants and 5 vowels in a bag. What would carry greater probability? Getting a consonant or a vowel? Find each probability.



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27. If we have 15 boys and 5 girls in a class which carries a higher probability? Getting a copy belonging to a boy or a girl. Can you give it a value?



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28. If you have a collection of 6 pairs of white socks and 3 pairs of black socks. What is the probability that a pair you pick without looking is

(i) white?

(ii) black?



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29. If you have a spinning wheel with 3-green sectors, 1-blue sector and 1-red sector. What is the probability of getting a green sector? Is it the maximum?



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