



MATHS

BOOKS - SURA MATHS (TAMIL ENGLISH)

PROBABILITY



1. You are walking along a street. If you just choose a stranger crossing

you, what is the porbability that his next birthday will fall on a Sunday

?

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2. What is the probability of drawing a King or a Queen or a Jack from

a deck of cards ?



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5. When two coins are tossed, what is the probability that two heads

are obtained?

6. Two dice are rolled, find the probability that the sum is

(i) equal to 1 (ii) equal to 4 (iii) less than 13



7. A manufacturer tested 7000 LED lights at random and found that 25 of them were defective . If a LED light is selected at random, what is the probability that the selected LED light is a defective one .



8. In a football match, a goalkeeper of a team can stop the goal, 32 times out of 40 attempts tried by a team. Find the probability that the opponent team can convert the attempt into a goal .



9. What is the probability that the spinner will not land on a multiple of 3 ?



10. Frame two problems in calculating probability, based on the spinner shown here.





Exercise 9 2

1. A company manufactures 10000 Laptops in 6 months. Out of which 25 of them are found to be defective. When you choose one Laptop from the manufactured, what is the probability that selected Laptop is a good one .



2. A number between 0 and 1 that is used to measure uncertainty is

called

A. Random variable

B. Trial

C. Simple event

D. Probability

Answer: A::B



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2. Probability lies between

A. -1 and +1

B. 0 and 1

C. 0 and n

D. o and ∞

Answer: A::D



2. The probability based on concept of relative frequency theory is called

A. Empirical probability

B. Classical probability

C. Both (1) and (2)

D. Neither (1) not (2)

Answer: A::B::C



Exercise 96

1.1500 families were surveyed and following date was recorded about

their maids at home

Type of maids	Only part time	${ m Only}\ { m full}\ { m time}$	Both
Number of families	860	370	250

A familiy is selected at random. Find the probability that the family

selected has

(i) Both types of maids (ii) Part time maids (iii) No maids



2. The probability of an event cannot be

A. Equal to zero

B. Greater than zero

C. Equal to one

D. Less than zero

Answer: D

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1. The probability of all possible outcomes of a random experiment is

always equal to

A. one

B. Zero

C.	Infin	ify
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D. Less than one

Answer:

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Exercise 98

1. If A is any event is S then its complement is A' then P(A') is equal to

A. 1

Β.Ο

C. 1-A

D. 1-P(A)

Answer: A



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Exercise 99

1. Which of the following cannot be taken as probability of an event ?

A. 0 B. 0.5 C. 1 D. -1

Answer: A





1. A particular result of an experiment is called

A. Trial

B. Simple event

C. Compound event

D. Outcome

Answer: D

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1. Collection of one or more outcomes of an experiment is called

A. Event

B. Outcome

C. Sample point
D. None of above
Answer:
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Exercise 9 12
1. The six faces of the dice are called equally likely if the dice is
A. Small

B. Fair

C. Six-faced

D. Round

Answer: A





Additional Questions And Answers Exercise 91

1. An unbiased die is thrown. What is the probability of getting

(i) an even number or a multiple of 3.

(ii) a number between 3 and 6.

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2. Two unbiased coins are tossed simultaneously find the probability

of getting

(i) two heads (ii) one head (iii) at least one head (iv) at most one head .



3. What is the probability that a leap year has 53 sundays?



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

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Additional Questions And Answers Exercise 9 2

1. 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?

2. 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) either red card or king .

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3. 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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4. Two dice are thrown simultaneously . Find the probability of getting

(i) an even number as the sum.

- (ii) a total of at least 10
- (iii) a doublet of even number .



a deck of cards ?



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shown here.





10. A company manufactures 10000 Laptops in 6 months. Out of which 25 of them are found to be defective. When you choose one Laptop from the manufactured, what is the probability that selected Laptop is a good one . **1.** In a survey of 400 youngsters aged 16-20 years, it was found that 191 have their voter ID card. If a youngster is seceted at random, find the probability that the youngster does not have their voter ID card

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2. The probability of guessing the correct answer to a certain question is $\frac{x}{3}$. If the probability of not guessing the correct answer is $\frac{x}{5}$, then find the value of x.

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3. If a probability of a player winning a particular tennis match is 0.72

. What is the probabillity of the player loosing the match ?

4. 1500 families were surveyed and following date was recorded about

their maids at home

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Number of families	860	370	250			
A familiy is selected at random. Find the probability that the family						

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