



MATHS

PROBABILITY

All Questions

1. What is probability?



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2. Types of Experiment



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3. Elementary Event



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4. An unbiased die is thrown. What is probability of getting : (i) An even number (ii) An odd number (iii) A multiple of 3 (iv) a number 3 or 4 (v) an even number and

multiple of 3 (vi) a number between 3 and 6

(vii) A number greater than 3 (viii) A number

less than 4



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5. Three unbiased coins are tossed simultaneously. Find the probability of getting

(i) two heads (ii) one head (iii) at least one

head (iv) more than one tails (v) at most 1 head



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6. Two dice are thrown simultaneously. Find the probability of getting : (i) An even number as the sum (ii) the sum as a prime number (iii) a multiple of 2 on one dice and multiple of 3 on another dice (iv) same number on both dice (v) sum of numbers is 9 (vi) sum of number is multiple of 3



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7. Find the probability that a leap year selected at random will contain 53 days.



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8. Real life cases of probability



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9. In a musical chair game; the person playing the music has been advised to stop playing the music at any time within 2 minutes after she starts playing. What is the probability that

the music will stop within the first half-minute after starting?



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10. A missing helicopter is reported to have crashed somewhere in the rectangular region shown in Figure. What is the probability that it crashed inside the lake shown in the figure?



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11. Theoretical Approach of Probability



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12. Compond Event



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13. Sample space



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14. Occurrence of an event



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15. favorable elementary events



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16. negation of an event verbal description and equivalent set theoretic notation



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17. Definition



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18. 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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