

FINDING SIMPLE PROBABILITIES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1. A fair six-sided die is rolled. What is the probability of rolling a 3?
2. A bag contains 4 red marbles and 6 blue marbles. What is the probability of drawing a red marble?
3. A spinner has 8 equal sections numbered 1 to 8. What is the probability of landing on an even number?
4. A standard deck of 52 cards is shuffled. What is the probability of drawing a heart?
5. A fair coin is flipped. What is the probability of landing on heads?
6. A box contains 5 green pencils and 3 yellow pencils. What is the probability of picking a yellow pencil?
7. A spinner has 5 equal sections: 2 red, 2 blue, and 1 green. What is the probability of landing on red?
8. A bag contains 7 black balls and 3 white balls. What is the probability of drawing a white ball?
9. A fair six-sided die is rolled. What is the probability of rolling a number greater than 4?
10. A standard deck of 52 cards is shuffled. What is the probability of drawing a king?

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| <p>11. A jar contains 10 sweets: 4 are strawberry and 6 are lemon. What is the probability of picking a strawberry sweet?</p> <p>13. A bag contains 8 red counters and 4 blue counters. What is the probability of drawing a blue counter?</p> <p>15. A standard deck of 52 cards is shuffled. What is the probability of drawing a queen or a king?</p> <p>17. A bag contains 5 black pens, 3 red pens, and 2 blue pens. What is the probability of picking a red pen?</p> <p>19. A standard deck of 52 cards is shuffled. What is the probability of drawing a diamond or a club?</p> | <p>12. A fair six-sided die is rolled. What is the probability of rolling an odd number?</p> <p>14. A spinner has 10 equal sections: 3 are yellow, 4 are blue, and 3 are green. What is the probability of landing on yellow?</p> <p>16. A fair six-sided die is rolled. What is the probability of rolling a prime number?</p> <p>18. A spinner has 6 equal sections: 1 is red, 2 are blue, and 3 are green. What is the probability of landing on green?</p> <p>20. A fair six-sided die is rolled. What is the probability of rolling a number divisible by 3?</p> |
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MASTER QUESTIONS



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- M1.** In a class of 30 students, 12 are boys. If a student is chosen at random, what is the probability that the student is a girl?
- M2.** A bag contains 12 counters: some are red and the rest are blue. The probability of drawing a red counter is $\frac{1}{3}$. How many blue counters are in the bag?

- M3.** A spinner has sections numbered 1 to 10. What is the probability of landing on a number that is a multiple of both 2 and 3?
- M4.** In a lottery, 1000 tickets are sold. You buy 5 tickets. What is the probability that you will win if only one ticket is drawn?
- M5.** A box contains 15 chocolates: 6 are milk, 5 are dark, and 4 are white. If one chocolate is taken at random, what is the probability that it is not white?
- M6.** A bag contains 20 marbles: 8 are green, 7 are yellow, and 5 are red. If one marble is drawn, what is the probability that it is either green or red?
- M7.** A fair six-sided die is rolled twice. What is the probability of rolling a 4 both times?
- M8.** A jar contains 24 jelly beans: 10 are cherry, 8 are lime, and 6 are orange. If two jelly beans are drawn without replacement, what is the probability that both are lime?
- M9.** A card is drawn from a standard deck, replaced, and then another card is drawn. What is the probability that both cards are spades?
- M10.** A bag contains 5 white balls and 7 black balls. If two balls are drawn without replacement, what is the probability that both are white?