



TestLife 11+



Maths Worksheets

11+ Probability

Worksheet

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11+ Probability Questions (Questions Only)

1. A fair coin is tossed once. What is the probability that it lands on heads?

2. A fair six-sided dice is rolled once. What is the probability of rolling a 3?

3. A bag contains 5 red balls and 3 blue balls. One ball is taken at random.
What is the probability that the ball is red?

4. A spinner is divided into 4 equal sections labelled A, B, C, and D.
The spinner is spun once. What is the probability that it lands on C?

5. A bag contains 10 marbles: 4 green, 3 yellow, and 3 blue. One marble is taken at random. What is the probability that the marble is yellow?

6. A fair dice is rolled once. What is the probability of rolling an even number?



7. A card is chosen at random from a set of cards numbered 1 to 10. What is the probability that the number chosen is greater than 6?

8. A bag contains 6 red pens and 4 blue pens. One pen is chosen at random. What is the probability that the pen is **not** blue?

9. A spinner is divided into 8 equal sections. 3 sections are shaded. What is the probability that the spinner lands on a shaded section?

10. A fair coin is tossed once. What is the probability that it does **not** land on tails?

11. A bag contains 12 balls: 5 white, 4 black, and 3 orange. One ball is taken at random. What is the probability that the ball is black or orange?

12. A fair six-sided dice is rolled once. What is the probability of rolling a number less than 3?



13. A box contains 7 apples and 5 oranges. One fruit is chosen at random.

What is the probability that the fruit chosen is an apple?

14. A spinner is divided into 5 equal sections. 1 section is blue and the rest are red.

What is the probability that the spinner lands on red?

15. A card is chosen at random from cards numbered 1 to 20. What is the probability that the number chosen is a multiple of 5?

16. A bag contains 9 sweets: 2 lemon, 3 strawberry, and 4 orange. One sweet is taken at random. What is the probability that the sweet is strawberry?

17. A fair dice is rolled once. What is the probability of rolling a number greater than 4?

18. A box contains 15 pencils: 6 blue, 5 red, and 4 green. One pencil is chosen at random. What is the probability that the pencil is green?



19. A spinner is divided into 6 equal sections. 2 sections are marked “win”. What is the probability of landing on “win”?

20. A bag contains 8 balls: 3 red, 3 blue, and 2 yellow. One ball is taken at random. What is the probability that the ball is blue or yellow?

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11+ Probability – Answer Key

1. Answer: $\frac{1}{2}$

Explanation: A fair coin has 2 equal outcomes. Heads is 1 of them.

2. Answer: $\frac{1}{6}$

Explanation: A dice has 6 sides. Only one side shows 3.

3. Answer: $\frac{5}{8}$

Explanation: Total balls = $5 + 3 = 8$. Red balls = 5.

4. Answer: $\frac{1}{4}$

Explanation: The spinner has 4 equal sections. One is C.

5. Answer: $\frac{3}{10}$

Explanation: Total marbles = 10. Yellow marbles = 3.

6. Answer: $\frac{1}{2}$

Explanation: Even numbers on a dice are 2, 4, and 6.

7. Answer: $\frac{2}{5}$

Explanation: Numbers greater than 6 are 7, 8, 9, and 10.

8. Answer: $\frac{3}{5}$

Explanation: Pens that are not blue = 6 out of 10.

9. Answer: $\frac{3}{8}$

Explanation: 3 shaded sections out of 8 equal sections.

10. Answer: $\frac{1}{2}$

Explanation: Not tails means heads.

11. Answer: $\frac{7}{12}$

Explanation: Black or orange balls = $4 + 3 = 7$ out of 12.

12. Answer: $\frac{1}{3}$

Explanation: Numbers less than 3 are 1 and 2.

13. Answer: $\frac{7}{12}$

Explanation: Total fruits = $7 + 5 = 12$. Apples = 7.

14. Answer: $\frac{4}{5}$

Explanation: Red sections = $5 - 1 = 4$ out of 5.



15. Answer: $\frac{1}{5}$

Explanation: Multiples of 5 are 5, 10, 15, and 20.

16. Answer: $\frac{1}{3}$

Explanation: Strawberry sweets = 3 out of 9 total sweets.

17. Answer: $\frac{1}{3}$

Explanation: Numbers greater than 4 are 5 and 6.

18. Answer: $\frac{4}{15}$

Explanation: Green pencils = 4 out of 15.

19. Answer: $\frac{1}{3}$

Explanation: "Win" appears on 2 of the 6 equal sections.

20. Answer: $\frac{5}{8}$

Explanation: Blue or yellow balls = $3 + 2 = 5$ out of 8.

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