Functional Skills Level 1

Probability — Worksheet 3

1. A fair six-sided dice is rolled once. What is the probability of rolling an odd number?

2. A fair dice is rolled once. What is the probability of rolling a number less than 5?

3. A bag contains 6 red counters, 4 blue counters and 5 green counters. What is the probability of choosing a red counter?

4. A spinner has 8 equal sections numbered 1 to 8. What is the probability of landing on a number greater than 5?

5. A box contains 12 white balls and 3 black balls. What is the probability of choosing a black ball? Give your answer in its simplest form.

6. A fair coin is tossed twice. What is the probability of getting exactly one head?

7. A bag contains 8 red counters and 2 yellow counters. What is the probability of choosing a yellow counter?

8. A fair six-sided dice is rolled once. What is the probability of rolling a number that is a factor of 6?

9. A spinner has 12 equal sections. 5 sections are green. What is the probability of landing on a green section?

10. A box contains cards numbered 1 to 15. One card is chosen at random. What is the probability of choosing a multiple of 5?

11. A fair dice is rolled once. What is the probability of rolling a number between 1 and 4 inclusive?

12. A bag contains 7 black pens and 5 blue pens. One pen is chosen at random. What is the probability of choosing a blue pen?

13. A group has 30 people. 18 have a bus pass and 12 do not. If one person is chosen at random, what is the probability they have a bus pass?

14. A spinner has 10 equal sections numbered 1 to 10. What is the probability of landing on an even number?

15. A box contains 20 chocolates. 8 are milk chocolate and 12 are dark chocolate. What is the probability of choosing a dark chocolate?

16. A fair coin is tossed three times. What is the probability of getting exactly two heads?

17. A bag contains 4 white, 6 black and 5 red counters. What is the probability of choosing a counter that is not black?

18. A raffle has 100 tickets. 20 tickets win a prize. What is the probability of winning with one randomly chosen ticket?

19. A box contains 3 red, 5 blue and 2 green balls. What is the probability of choosing a red or green ball?

20. A fair six-sided dice is rolled twice. What is the probability of rolling an even number on both rolls?