Functional Skills Level 1

Probability — Worksheet 2

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

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

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

4. A spinner has 6 equal sections numbered 1 to 6. What is the probability of landing on a number less than 4?

5. A box contains 8 white balls and 2 black balls. What is the probability of choosing a white ball? Give your answer in its simplest form.

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

7. A bag contains 5 red counters and 7 blue counters. One counter is chosen at random. What is the probability of choosing a red counter?

8. A fair six-sided dice is rolled once. What is the probability of rolling a 1 or a 6?

9. A spinner has 10 equal sections. 4 are yellow and 6 are blue. What is the probability of landing on yellow?

10. A box contains cards numbered 1 to 12. One card is chosen at random. What is the probability of choosing a multiple of 3?

11. A fair dice is rolled once. What is the probability of rolling a number between 2 and 5 inclusive?

12. A bag contains 6 black pens and 4 red pens. One pen is chosen at random. What is the probability of choosing a red pen?

13. A class has 24 students. 9 cycle to college and 15 use another form of transport. If one student is chosen at random, what is the probability they cycle?

14. A spinner has 8 equal sections numbered 1 to 8. What is the probability of landing on an odd number?

15. A box contains 15 chocolates. 9 are milk chocolate and 6 are dark chocolate. What is the probability of choosing milk chocolate?

16. A fair coin is tossed three times. What is the probability of getting heads on all three tosses?

17. A bag contains 9 white counters and 6 black counters. What is the probability of choosing a black counter?

18. A raffle has 40 tickets. 8 tickets win a prize. What is the probability that one randomly chosen ticket wins?

19. A box contains 5 red, 4 blue and 6 green balls. What is the probability of choosing a ball that is not red?

20. A fair six-sided dice is rolled twice. What is the probability of rolling a 6 on the first roll and a 6 on the second roll?