LISTING OUTCOMES

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

MAIN QUESTIONS

- List all possible outcomes when flipping a coin.
- 3. List all possible outcomes when drawing a card from a standard deck of 52 cards.
- List all possible outcomes when tossing two coins simultaneously.
- 7. List all possible outcomes when drawing two marbles from a bag containing red, blue, and green marbles without replacement.
- 9. List all possible outcomes when selecting a vowel from the English alphabet.
- 11. List all possible outcomes when selecting two different letters from the word 'MATH'.

- List all possible outcomes when rolling a standard sixsided die.
- 4. List all possible outcomes when spinning a spinner divided into 4 equal parts labelled A, B, C, D.
- List all possible outcomes when rolling two six-sided dice.
- 8. List all possible outcomes when choosing a day of the week.
- 10. List all possible outcomes when flipping a coin and rolling a die.
- List all possible outcomeswhen arranging the lettersA, B, C in a row.

- 13. List all possible outcomes when selecting a prime number less than 10.
- 15. List all possible outcomes when selecting a consonant from the word 'BRITISH'.
- 17. List all possible outcomes when selecting two different digits from 1 to 3.
- 19. List all possible outcomes when selecting a square number between 1 and 20.

- 14. List all possible outcomes when choosing a colour from the rainbow.
- 16. List all possible outcomes when rolling a die and flipping a coin twice.
- 18. List all possible outcomes when choosing a month of the year.
- 20. List all possible outcomes when arranging the digits 1, 2, 3 to form a three-digit number.

MASTER QUESTIONS



- M1. A fair six-sided die is rolled twice. List all possible outcomes where the sum of the two rolls is 5.
- M2. A bag contains 3 red marbles and 2 blue marbles. Two marbles are drawn without replacement. List all possible outcomes.
- M3. A spinner has three equal sections labelled A, B, and C. It is spun twice. List all possible outcomes where the same letter appears both times.
- M4. Two coins are flipped. List all possible outcomes where at least one coin shows heads.
- M5. A standard deck of 52 cards is shuffled. One card is drawn. List all possible outcomes where the card is a heart or a king.
- M6. A fair die is rolled and a coin is flipped. List all possible outcomes where the die shows an even number and the coin shows tails.

- M7. A box contains 1 red, 1 blue, and 1 green ball. Two balls are drawn with replacement. List all possible outcomes where the balls are of different colours.
- M8. A four-digit PIN is formed using the digits 1, 2, 3, 4 without repetition. List all possible outcomes where the first digit is 1.
- M9. A committee of 2 people is to be selected from 3 candidates: Alice, Bob, and Carol. List all possible outcomes.
- M10. A fair die is rolled three times. List all possible outcomes where the sum of the three rolls is 4.