



# BINARY CODE: DECODE YOUR GROUP



A team is in Group J of the World Cup.  
Use binary code to discover the countries in the group.

## WHAT IS BINARY CODE?

Binary code uses only two numbers: 0 and 1.

Each group of 8 bits (8 zeros or ones)  
represents a character using the ASCII table.

By decoding these groups, we can read letters  
and form words.

Example:

01000001 = A

01000010 = B

01000011 = C

## ASCII REFERENCE TABLE (uppercase)

| CHAR | BINARY   |
|------|----------|
| A    | 01000001 |
| B    | 01000010 |
| C    | 01000011 |
| D    | 01000100 |
| E    | 01000101 |
| F    | 01000110 |
| G    | 01000111 |
| H    | 01001000 |
| I    | 01001001 |
| J    | 01001010 |
| K    | 01001011 |
| L    | 01001100 |
| M    | 01001101 |

| CHAR | BINARY   |
|------|----------|
| N    | 01001110 |
| O    | 01001111 |
| P    | 01010000 |
| Q    | 01010001 |
| R    | 01010010 |
| S    | 01010011 |
| T    | 01010100 |
| U    | 01010101 |
| V    | 01010110 |
| W    | 01010111 |
| X    | 01011000 |
| Y    | 01011001 |
| Z    | 01011010 |

## INSTRUCTIONS

- 1 Each country name is written in binary code.
- 2 Split each line into groups of 8 bits.
- 3 Use the ASCII table to convert each group into the corresponding letter.
- 4 Write the full name of the country.

| BINARY CODE                                                                           | COUNTRY |
|---------------------------------------------------------------------------------------|---------|
| 1 01000001 01010010 01000111 01000101 01001110<br>01010100 01001001 01001110 01000001 | _____   |
| 2 01000001 01001100 01000111 01000101 0101000 01001001 01000001                       | _____   |
| 3 01000001 01010101 01010011 01010100 01010010 01001001<br>01000001                   | _____   |
| 4 01001010 01001111 01010010 01000100 01000001 01001110                               | _____   |



## THINK & REFLECT

- Why do you think computers use binary code?
- What other hidden messages could be written using binary?
- Research: Which other countries have qualified for the World Cup 2026?



## EXTRA CHALLENGE (OPTIONAL):

Write your name or your favorite country in binary (ASCII)  
and challenge a classmate to decode it!

