Understanding the Coding and Decoding

- Coding and decoding is a way of writing or reading secret messages using patterns

- In coding, letters or numbers are changed by following a certain rule

- In decoding, we find the rule and reverse it to get the original word or number

- These patterns can include alphabet shifts, number changes, or symbols

- It helps improve logic, reasoning, and thinking ability

Examples with Solutions

Example:

If A = 1,

B = 2,

C = 3, then what is the code for CAT?

✓ C = 3,

A = 1,

T = 20

Answer: 3 1 20

Example: If numbers are coded as 2 more than their original value, what is the code for 5?
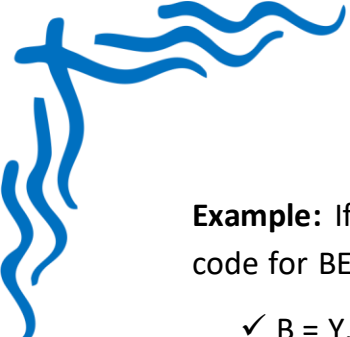
✓ Rule: Add 2

✓ 5 + 2 = 7

Answer: 7

Example: If the code for DOG is 4 15 7, what does that mean?

✓ D = 4,

O = 15,

G = 7 (based on alphabet positions)

Answer: DOG

Example: If the letters are coded in reverse order (A = Z, B = Y, C = X...), what is the code for BEE?

✓ B = Y,

E = V,

E = V

Answer: Y V V

Example: If 1 is coded as A, 2 as B, 3 as C, then decode: 8 5 12 12 15

✓ 8 = H,

5 = E,

12 = L,

12 = L,

15 = O

Answer: HELLO

Summary Points

- Coding is writing using secret patterns or rules
- Decoding is finding and breaking the pattern to read the real word or number
- Common rules involve alphabet positions, reverse order, adding or subtracting numbers
- Coding and decoding improves thinking, problem solving, and fun learning
- It helps in pattern recognition and strengthens memory