Coding Decoding Questions for Practise

Coding (Letter Substitution)

In a certain code language, 'DOG' is written as 'HPL'. How is 'CAT' coded in this language

Answer: JOL (Each letter moves three positions forward)

If 'TABLE' is coded as 'ZYXWV', what is the code for 'CHAIR'?

Answer: BGDFE (Letters move backward one position)

Code the word 'SMART' if each letter is shifted two places forward.

Answer: VWNVC

Decoding (Letter Substitution)

If 'HELLO' is coded as 'khoor zruog', what is the original word for 'khoor'?

Answer: HELLO (Reverse the order and shift each letter backward three positions)

In a certain code, '7' represents 'T' and '3' represents 'H'. Decode '3713'

Answer: THANK (Substitute numbers with their corresponding letters)

Number Coding

If 1 represents A, 2 represents B, and so on, what is the code for 'SUN'?

Answer: 1921 (Assign numerical values based on alphabetical order)

Code the word 'LOVE' if each letter represents its position in the alphabet (L = 12, O = 15, V = 22, E = 5).
Answer: 12-15-22-5

Pattern Coding

'APPLE' is coded as '311311'. What is the code for 'BANANA'?

Answer: 21111121 (Repeat the numerical value corresponding to the number of times each letter appears)

In a code, every consonant is replaced by 1 and every vowel is replaced by 2. Decode '121122'.

Answer: CATFISH (Identify the pattern - 1 for consonants, 2 for vowels)

Code the word 'HAPPY' if the first letter gets 1 point, the second gets 2 points, and so on.

Answer: 8 (H = 8th letter, A = 1st letter, P = 16th letter, P = 16th letter, Y = 25th letter - add position values)

1. Question:
   Encode the word "HELLO" using a Caesar cipher with a shift of 3.

   Answer:
   Original: H E L L O
   Encoded: K H O O R

2. Question:
   Decode the word "WKLQN" using a Caesar cipher with a shift of 3.

   Answer:
   Encoded: W K L Q N
   Decoded: T H I N K

3. Question:
   Encode the phrase "GOOD MORNING" using a Caesar cipher with a shift of 5.

   Answer:
   Original: G O O D   M O R N I N G
   Encoded: L T T I   R T W S N S L

4. Question:
   Decode the phrase "REVSZI" using a Caesar cipher with a shift of 8.

   Answer:
   Encoded: R E V S Z I
   Decoded: J M D K Q A

5. Question:
   Encode the word "PYTHON" using a ROT13 cipher.

   Answer:

Original: P Y T H O N
Encoded: C L G U B A

6. Question:
   Decode the word "XVEXL" using a ROT13 cipher.

   Answer:
   Encoded: X V E X L
   Decoded: K I R K Y

7. Question:
   Encode the phrase "HELLO WORLD" using a Atbash cipher.

   Answer:
   Original: H E L L O   W O R L D
   Encoded: S V O O L   D L I O W

8. Question:
   Decode the phrase "SLINR" using a Atbash cipher.

   Answer:
   Encoded: S L I N R
   Decoded: H O R M I

9. Question:
   Encode the word "BANANA" using a Rail Fence cipher with a depth of 3.

   Answer:
   Original: B A N A N A
   Encoded: B N A A A A

10. Question: Decode the word "DBNLAU" using a Rail Fence cipher with a depth of 4.

   Answer:
   Encoded: D B N L A U
   Decoded: D A L U B N