

Coding and Decoding

A. Choose the correct answer:

1. If $A = 1$, $B = 2$, $C = 3$, then what is the code for D?

- a) 2
- b) 3
- c) 4
- d) 5

2. If $CAT = 3 + 1 + 20$, what is the total code value of CAT?

- a) 24
- b) 25
- c) 26
- d) 27

3. If $Z = 26$, then what is the code for M?

- a) 12
- b) 13
- c) 14
- d) 15

4. If $APPLE = 1 + 16 + 16 + 12 + 5$, what is the total code value?

- a) 40
- b) 50
- c) 60
- d) 45

5. In a code, if $DOG = 4 + 15 + 7$, what is the code total?

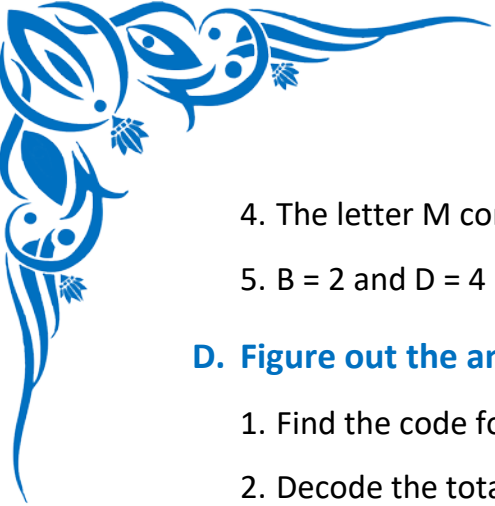
- a) 25
- b) 26
- c) 27
- d) 28

B. Write the Missing Terms to Complete the Sentences:

1. If $A = 1$, then $Z =$ _____
2. In alphabetical order, $E =$ _____
3. The word "MATH" = $13 + 1 + 20 +$ _____
4. If the code for FUN is $6 + 21 + 14 =$ _____
5. If $B = 2$, then the code for BB = _____

C. Mark each sentence with a True (✓) or False (X):

1. $A = 1$, $Z = 26$ is the standard coding pattern _____
2. In the word "BOOK", $K = 11$ _____
3. The word "HELLO" adds up to 52 in letter codes _____



4. The letter M comes after N _____

5. $B = 2$ and $D = 4$ _____

D. Figure out the answers to these questions:

1. Find the code for the word "SUN" using $A = 1$ to $Z = 26$
2. Decode the total 33 as the sum of three letters
3. If $A = 1$ and each next letter increases by 1, what is the code for "BED"?
4. If $CODE = 3 + 15 + 4 + 5$, what is the total value?
5. Create a word whose letter codes add up to 30

E. Challenge yourself with these questions:

1. Code the word "BALL" using number values of letters
2. What is the total code for "TREE"?
3. Make a secret message using number codes for "HOME"
4. Decode this sum: $8 + 5 + 12 + 16 = ?$ (what word is this?)
5. Write any word with a total letter code sum of 40