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Sequential Output Tracing Questions for IBPS Clerk, IBPS PO Pre, IBPS SO Pre, SBI Clerk, SBI PO Pre, RRB Scale I Pre

Sequential Output Tracing Quiz 17

Directions: An alphanumeric machine accepts letters as input and delivers output in form of numbers through different steps. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step. Below mentioned is an illustration of the same.

Input: glory gained through resolving conflict between these personalities

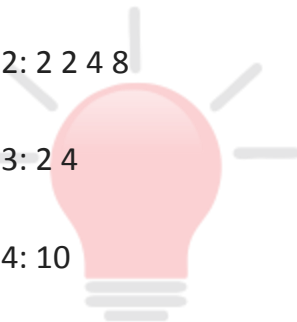Step1: 8 6 10 12 12 8 6 14

Step2: 2 2 4 8

Step3: 2 4

Step4: 10

Step4 is the final output.

On the basis of above illustration find the output and different steps for the following input.

Input: decreasing glaciers result from the melting snow valley

1. What is the cube of the value that is obtained as final output?

A. 729   B. 343   C. 125
D. 216   E. None of these

2. Which of the following is the numeric code for 'melting' as per the given pattern?

A. 12   B. 14   C. 10
D. Can't be determined
E. None of these

3. Four of the following are alike in some way and thus form a group, which is the one that does not belong to the group?

A. 6   B. 8   C. 12
D. 10   E. 16

4. Which of the following is the correct code for 'snow glaciers" as per the given pattern respectively?

A. 6 and 10   B. 10 and 7   C. 9 and 7
D. 6 and 14   E. None of these

5. Which of the following is the difference between the sum of the numbers of step 2 and sum of the numbers of step 3?

A. 6   B. 5   C. 4
D. 8   E. None of these

Correct answers:

1	2	3	4	5
B	C	E	A	D

Explanations:

1.
From the following explanation it is clear that the final output is 7 and cube of which is 343.
Hence, option B is the correct answer.

2.
From the following explanation it is clear that the numeric code for 'melting' is 10.
Hence, option C is the correct answer.

3.
From the following explanation it is clear that unlike other values, 16 is not among the values given in various steps of output.
Hence, option E is the correct answer.

4.
From the following explanation it is clear that code for snow glaciers is 6 and 10 respectively.
Hence, option A is the correct answer.

5.
From the following explanation it is clear that the sum of numbers of step 2 is 2 + 2 + 6 + 2 = 12.

Sum of numbers of step 3 is 3+1 = 4.
Required difference = 12 – 4 = 8.
Hence, option D is the correct answer.

Final Output:

Input: decreasing glaciers result from the melting snow valley

Step1: 12 10 8 6 4 10 6 8

Step2: 2 2 6 2

Step3: 3 1

Step4: 7

Common Explanation

Each step is obtained by applying an **operation different from the previous step**.

Reference:

Input: glory gained through resolving conflict between these personalities

Step1: 8 6 10 12 12 8 6 14

Inference:

Here the operation performed is : **Multiplication.**

Here, the conversion of letters to numbers is done by doubling the number of consonants of each word. The numbers are to be written in the same order in which their respective words are written in the input.

Following the same logic, we can easily find the values of step 1.

- For 'result' number of consonants are 4 so its respective number becomes 8.(4×2)
- For 'melting', number of consonants are 5 so its respective number becomes 10.(5×2)

Input: decreasing glaciers result from the melting snow valley

Step1: 12 10 8 6 4 10 6 8

Reference:

Step1: 8 6 10 12 12 8 6 14

Step2: 2 2 4 8

Inference:

Here the mathematical operation performed is : **Subtraction.**

- To obtain the first value of step 2, difference of first and second numbers (from left end) is taken.
- To get the second value of step 2, difference of third and fourth numbers is taken.
- To acquire the third value of step 2, difference of fifth and sixth numbers is taken.
- To identify the fourth value of step 2, difference of seventh and eighth numbers is taken.

Following the same logic, we can easily find the values of step 2.

Step1: 12 10 8 6 4 10 6 8

Step2: 2 2 6 2

Reference:

Step2: 2 2 4 8

Step3: 2 4

Inference:

Here the operation performed is : **Division.**

First value of step 3 is obtained by taking the division of first and third numbers from left end.

Second value of step 3 is obtained by taking the division of second and fourth numbers from left end.

Note- The greater number is divided by the smaller number.

Following the same logic, we can easily find the values of step 3.
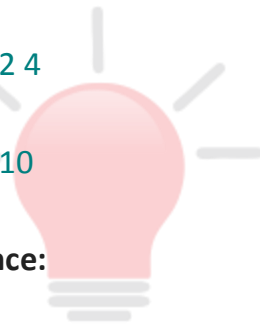
Step2: 2 2 6 2

Step3: 3 1

Reference:

Step3: 2 4

Step4: 10

Inference:

Here the operation performed is : **Addition.**

Sum of both the numbers of step 3 is taken and greater number is further added to this sum to obtain the value of step 4.

Following the same logic, the value of step 4 is 3 + 1 = 4, greater number here is 3, so 4 + 3 = 7.

Step3: 3 1

Step4: 7