



Mixtures And Alligations Questions Overview

Mixtures And Alligations Questions have a good weightage in the Ssc Cgl Exam and the type of question asked in Ssc Cgl exam is similar to the question mentioned below. It has been solved and explained by KD Live Experts under the guidance of Neetu Mam and they have tried to elaborate the concept used in Mixtures And Alligations Questions.

Question On Mixtures And Alligations

An acid solution contains 24% of acid in water. If 'y' ml of pure water is added, its concentration reduces to 16%. Now if 'y' ml of acid containing 60% acid is added to the original acid solution, what will be the ratio of acid and water in the resulting mixture?

Difficulty : Moderate

Average Time : 42 Seconds

Mixtures And Alligations Questions Options

1. 3 : 4
2. 4 : 3
3. 9 : 16
4. 16 : 9

Mixtures And Alligations Questions Solution

The correct answer is **Option 3** i.e. **9 : 16**.

Let the volume of original solution be x

Final concentration of acid = Acid in original solution / (x + y) × 100

$$16 = 24/100 \times x / (x + y) \times 100$$

$$16 = 24x / (x + y)$$

$$16x + 16y = 24x$$

$$16y = 8x$$

$$x = 2y$$

Amount of acid in 24% acid of x ml = $24/100 \times x = 0.24x$

$$0.48y [x = 2y]$$

Amount of acid in 60% acid of y ml = $60/100 \times y = 0.6y$

$$\text{Final amount of acid} = 0.48y + 0.6y = 1.08y$$

$$\text{Final amount of water} = (x + y) - 1.08y$$

$$3y - 1.08y = 1.92y$$

$$\text{Ratio} = 1.08y : 1.92y$$

$$9 : 16$$

Mixtures And Alligations Questions Tips and Tricks



1. Try to solve Mixtures And Alligations Questions without taking any help from the solutions.
2. Mixtures And Alligations Questions require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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Further Guidance on Mixtures And Alligations Questions

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KD live has an expertise in providing apt explanations for the Mixtures And Alligations Questions since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. Study.kdcampus.live is providing free information on various topics and for the Ssc Cgl Exam you can refer the following link [Click Here](#) however if you want to practice more questions then please refer the following link [Click Here](#).

About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Mixtures And Alligations Questions. She has guided her team to provide the best explanation for the question.