

Trigonometry Questions Overview

Trigonometry Questions have a good weightage in the Ssc Chsl Exam and the type of question asked in Ssc Chsl 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 Trigonometry Questions.

Question On Trigonometry

From a lighthouse of height 33 m, the angle of depressions of two ships A and B coming from opposite sides are 30° and 60° respectively. If there is a mirror in ship B, what is the distance between ship A and its image in the mirror?

Difficulty : Moderate

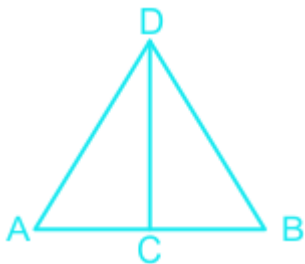
Average Time : 38 Seconds

Trigonometry Questions Options

1. 4 m
2. 6 m
3. 12 m
4. 24 m

Trigonometry Questions Solution

The correct answer is **Option 4** i.e. **24 m**.



Let $CD =$ lighthouse

In triangle ACD

$$\cot CAD = AC/CD$$

$$\cot 30^\circ = AC/(33)$$

$$3 = AC/(33)$$

$$AC = 9 \text{ m}$$

In triangle BCD

$$\cot CBD = BC/CD$$

$$\cot 60^\circ = BC/(33)$$

$$1/3 = BC/(33)$$

$$BC = 3 \text{ m}$$

$$AB = 12 \text{ m}$$

Distance between the object(ship A) and image = 2 × Distance between object and mirror = 2 × 12 = 24 m

Trigonometry Questions Tips and Tricks



1. Try to solve Trigonometry Questions without taking any help from the solutions.
2. Trigonometry 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 Trigonometry Questions

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KD live has an expertise in providing apt explanations for the Trigonometry 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 Chsl 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 Trigonometry Questions. She has guided her team to provide the best explanation for the question.