# SCINNOVA
# VIII

# PTOLΣMY'S PUZZLΣ

"Raise your hand if you've ever used the quadratic formula in real life." Seen those memes? Well, this time, you'll actually raise your hand. Be that guy from the word problems—buy 500 oranges around campus and solve clues while running around. Have you ever thought of performing mathematics physically? No? Do it with us, and we promise that when you depart, you'll find yourself enjoying mathematics in class more than ever.

Your blueprint for this mathematical ride is the study guide below, packed with all the knowledge you'll need to conquer the rounds of this terrific module. Let's put our calculators to the best use, without the weight of our heads in our palms. For once, maths won't stress you out.

## ROUND 1:

What's the probability of you acing this round? Hmmm, 1! We feel that you and statistics have been apart far too long—it's time to catch up. There will be symbols and numbers unique to the campus that will bring challenges for you to interact with. Prepare for this insane mathematical extravaganza.

The content we expect you to know:

1. Application of the basic trigonometry ratios.
2. Mensuration and its application with different shapes.
3. Probability with different cases.
4. Calculation using permutations or combinations.
5. Factorial and its basic application on everyday scenarios.

## ROUND 2:

You and SCINNOVA VIII? Absolute hit. Ever played battleship? Let's play it together now. All you need to do to demolish this round is know your trigonometric family and everything about their cousins, the trigonometric quadrants. Knowing the vector kingdom is also a requirement as they may whisper secrets to you and help you win this round.

You and SCINNOVA VIII? Absolute hit. Ever played Battleship? Let's play it together now. All you need to take the crown in this round is to know your trigonometric family and everything about their cousins, the trigonometric quadrants. Knowing the vector kingdom is also a requirement, as they may whisper secrets to you and help you win this round.

The content we expect you to know:

1. Trigonometry and its application on a larger scale
2. Vectors in real life and basic 3D vector ideas
3. Mensuration and its application with different shapes and sizes
4. How to play the game battleship
5. How to use the scale and measuring tapes in real life

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