Level 3A

Middle School

38-Week Course | 1 Hour 45 Min Classes | Once A Week

Level 3A at Bhanzu moves students into deeper algebra, geometry, and data reasoning.

They learn to work with equations, ratios, and coordinate graphs, while exploring shapes, angles, transformations, and volume through real-world connections. With engaging activities in probability and data, each module builds fluency, confidence, and a strong foundation for advanced middle school math.

MODULE 1

Advanced Arithmetic I

- Speed Addition & Subtraction
- Speed Multiplication & Division
- Fractions & Decimals
- Rational & Irrational Numbers
- Operations on Rational Numbers
- GCF, LCM & Their Relationship
- Variables & Solving Simple Equations
- Scenario Based Questions
- Module Quiz

MODULE 2

Expressions, Exponents, and Inequalities

- Ratio, Unit Rate, and Proportions
- Inverse Proportions
- Laws of Exponents
- Squares & Square Roots
- Linear Equations & Graphing
- Linear Inequalities
- Constraints on Inequalities
- Scenario Based Questions
- Module Quiz

MODULE 3

3D Geometry

- Percentages
- Profit and Loss
- Pythagorean Theorem
- Perimeter & Area of Polygons
- Perimeter of a Circle & Parts of a Circle
- Surface Area & Volumes
- Coordinate Geometry
- Scenario Based Questions
- Module Quiz

MODULE 4

Statistics and Probability I

- Reflections & Line Symmetry
- Rotational Symmetry
- Data Collection & Representation
- Measures of Central Tendency
- Interquartile Range & Mean
- Set Theory: Basics & Set Operations
- Probability: Simple & Compound Events
- Scenario Based Questions
- Module Quiz

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Sample Problems

Here are a few sample questions that students will be able to solve upon completing each module of Level 3A

Advanced Arithmetic I

Q1. Solve mentally:

(-53265) x (-9)

Q2. Emma, Jack and Olivia play their instruments every 18, 24 and 30 minutes respectively. They start at 12:00 PM. When will they all play together again?

Expressions, Exponents And Inequalities

Q3. Simplify the expression:

$3(2x-4)+5(3x+2)-4x$

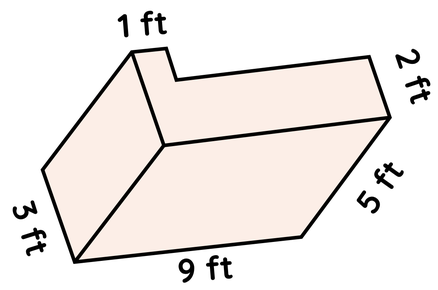
Q4. Solve the system of equations algebraically

$3x + 2y = 12$

$x - y = 1$

3D Geometry

Q5. Find the volume of the given 3D shape:



Q6. A rectangular wire of perimeter 314 m is bent into a perfect circle. What is the radius of the circle formed?

Statistics And Probability I

Q7. A group of 10 students were surveyed to find out how many hours they spent studying for their math test last week. The results (in hours) are as follows: 8, 5, 7, 9, 10, 6, 6, 7, 5, 8. Calculate mean, median, mode, and range.

Q8. A box contains 6 red balls, 4 blue balls, and 5 green balls. What is the probability of drawing a red ball or a blue ball on the first draw?