

What they ask

Class-wise MCQs to Build Strong Mathematical Foundations

class 6th and 7th

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Preface

Mathematics is not a subject to be feared — it is a language to be mastered. *What They Ask: MCQ Practice in Mathematics for Classes 6th and 7th* is the second volume in the *What They Ask* series, built on the same conviction that shaped its predecessor: that consistent, focused practice through well-designed questions is the surest path to mathematical confidence.

The transition from primary to middle school marks a decisive turning point in a student's mathematical journey. Concepts that were once concrete and visual — counting, basic shapes, simple operations — now give way to abstraction: ratios and proportions, algebraic thinking, rational numbers, mensuration, and data handling. This is the stage where a student either builds a foundation strong enough to carry them through high school and beyond, or accumulates gaps that will resurface, year after year, as unresolved confusion. This book exists to ensure it is the former.

Every question in this volume has been crafted with a single purpose: to test not just memory, but understanding. Multiple-choice questions are often dismissed as a lesser form of assessment — guesswork dressed up as evaluation. This book rejects that notion. Each MCQ here is designed to probe conceptual clarity, expose common misconceptions, and reward genuine reasoning over rote recall. Distractors are not arbitrary; they mirror the exact errors students tend to make, turning every wrong answer into a lesson in itself.

The content follows a class-wise structure — Class 6 and Class 7 with topics sequenced to mirror how mathematical ideas actually build upon one another. It draws on the frameworks of NCERT, CBSE, ICSE, and BSE Odisha, ensuring relevance for students across curricula and boards, while maintaining a level of rigor that goes beyond textbook repetition.

This book is not an endpoint. It is the second step in a longer journey — one that began with the foundations laid in Classes 1–5, and one that will continue into high school and beyond, as future volumes in this series extend the same philosophy to more advanced mathematical terrain. The goal remains

unchanged: to build not just students who can answer questions, but thinkers who understand why the answer is what it is.

To every student who opens this book — question boldly, reason carefully, and let the answers follow.

INTRODUCTION

What They Ask: MCQ Practice in Mathematics for Classes 6th and 7th

Mathematics does not reward the passive learner. It rewards the one who questions, who tests, who dares to be wrong before getting it right. This book — the second volume in the What They Ask series — was written with that single belief at its core: that real mastery of mathematics is forged not by passively reading definitions, but by actively confronting well-crafted questions, again and again, until clarity becomes instinct.

Classes 6, and 7 are not merely three more rungs on the academic ladder. They are the years in which a student's relationship with mathematics is quietly decided — for better or for worse. This is where numbers stop being simple counters and become variables. Where shapes stop being drawings and become objects of measurement and proof. Where a student either learns to think mathematically, or learns to fear the subject for the rest of their life. Nothing in this transition is optional, and nothing in it should be left to chance.

We — Swati and Santosh — did not write this book from a distance. It comes directly from the classroom, from years of watching students stumble not because they lacked intelligence, but because they lacked practice of the right kind. Too many books offer either dry theory with no application, or question banks with no rigor. We set out to build something different: a resource where every single multiple-choice question is a deliberate act of teaching — testing a concept, exposing a common error, and rewarding genuine understanding over guesswork.

This book is structured class-wise — Class 6 and Class 7, — with each section carefully sequenced so that ideas build on one another the way they do in a well-taught classroom. Ratio and proportion lead into unitary method and percentage. Fractions and decimals lead into rational numbers. Basic geometry leads into mensuration. Nothing is presented in isolation, because

mathematics itself is never isolated — every concept is a stepping stone to the next.

We have drawn on the frameworks of NCERT, CBSE, ICSE, and BSE Odisha, ensuring that no matter which board a student follows, the questions inside these pages remain relevant, rigorous, and true to what will actually be asked in their classrooms and examinations. But relevance to a syllabus was never our only goal. Our deeper aim is to build confidence — the quiet, durable kind that comes from a student solving problem after problem and realizing, gradually, that mathematics is not something to be afraid of, but something to be enjoyed.

To the teachers and parents holding this book: use it not as a test, but as a training ground. Let students get questions wrong here, in these pages, where a wrong answer costs nothing but teaches everything. To the students: do not rush. Read every option. Understand why the correct answer is correct, and — just as importantly — why the others are not. That habit alone will carry you further than any shortcut ever could.

This volume is not the end of the journey — it is a continuation. It follows *What They Ask: MCQ Practice in Mathematics for Classes 1–5*, which laid the foundation this book now builds upon, and it will, in turn, be followed by further volumes carrying this same philosophy into high school and beyond. Our commitment is to walk with the student through the entire arc of school mathematics, one well-designed question at a time.

We wrote this book because we believe every student deserves the chance to discover that they are, in fact, good at mathematics — they simply may not have been asked the right questions yet. It is our hope that this book asks them.

— Swati

— Santosh