ONE PAGE SUMMARY

Competitive Exams › Central Government Exams › Railway Exams

Mathematics and Arithmetic

Master Mathematics for Railway Exams with Confidence!

DEFINITION

> Mathematics and Arithmetic in Railway Exams involve problem-solving skills in numerical concepts. It tests your ability to perform calculations quickly and accurately.

KEY CONCEPTS

Basic Arithmetic

Involves addition, subtraction, multiplication, and division of numbers.

Percentages

Understanding how to calculate percentages is crucial for solving various problems.

Ratios and Proportions

These concepts help compare quantities and solve problems involving relationships between numbers.

Averages

Calculating the mean, median, and mode of a set of numbers is often tested.

Time and Work

Involves calculating the time taken to complete tasks based on work rates.

EXAMPLES

→ If a train travels 60 km in 1 hour, how far will it go in 3 hours?

→ Calculate 25% of 200.

→ If 3 workers can complete a task in 12 days, how long will it take 6 workers?

MEMORY TIPS

★ Use the acronym 'PRACTICE' to remember Percentages, Ratios, Averages, Calculations, Time, Interest, and Estimation.

★ For percentages, think of 'part over whole' to simplify calculations.

★ Visualize ratios as slices of a pie to grasp proportions easily.

COMMON MISTAKES

✗ Miscalculating percentages by not converting to decimal first.

✗ Forgetting to simplify ratios before solving.

✗ Confusing mean, median, and mode in average problems.

QUICK RECAP

Focus on mastering basic arithmetic and key concepts like percentages and ratios. Practice regularly to improve speed and accuracy in calculations.