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JEE MAIN · MATHEMATICS

Mathematics: chapter-wise weightage

Previous Year Questions: what to study first

29 chapters · **5,883** questions · **2002–2026**

Chapter PDFs with every question and answer, and step-by-step solutions: free in the EdLoop JEE app (Google Play) · pyq.edloop.in

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Mathematics chapters ranked by weightage

Weightage = a chapter's share of all Mathematics questions in 2019–2026. Questions and papers count every year we hold (2002–2026). Counts only; nothing here predicts a future paper.

#	Chapter	Weightage 2019–2026	Questions	Papers	Years
1	Three Dimensional Geometry	7.2%	416	200	2002–2026
2	Sets, Relations & Functions	5.8%	321	187	2002–2026
3	Sequences & Series	5.7%	333	190	2002–2026
4	Matrices	5.7%	312	193	2003–2026
5	Definite Integration	5.4%	311	189	2002–2026
6	Vector Algebra	4.9%	286	189	2002–2026
7	Limits, Continuity & Differentiability	4.8%	285	186	2002–2026
8	Differential Equations	4.6%	255	191	2002–2026
9	Binomial Theorem	4.5%	256	190	2002–2026
10	Permutations & Combinations	4.2%	239	177	2002–2026
11	Probability	4.1%	245	191	2002–2026
12	Quadratic Equations	4%	238	184	2002–2026
13	Applications of Derivatives	3.9%	241	160	2002–2026
14	Complex Numbers	3.7%	215	185	2002–2026
15	Trigonometry	3.6%	228	162	2002–2026
16	Straight Lines	3.5%	230	161	2002–2026
17	Circles	3.3%	200	157	2002–2026
18	Area Under Curves	3.2%	178	171	2002–2026
19	Statistics	2.6%	160	156	2002–2026
20	Parabola	2.2%	134	129	2002–2026
21	Mathematical Reasoning	2.2%	132	130	2008–2023
22	Ellipse	2.2%	123	112	2004–2026
23	Inverse Trigonometric Functions	2%	108	99	2002–2026
24	Hyperbola	1.8%	101	97	2003–2026
25	Indefinite Integration	1.7%	110	108	2004–2026
26	Differentiation	1.6%	107	90	2002–2026
27	Determinants	1.4%	98	85	2002–2026
28	Statics & Dynamics	0%	17	6	2002–2007
29	Mathematical Induction	0%	4	4	2002–2019

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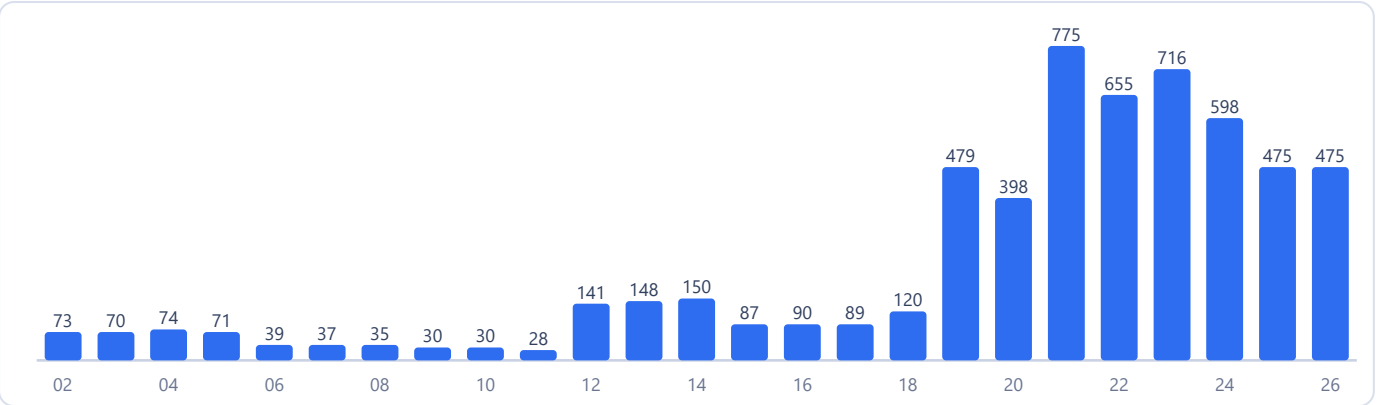
Mathematics questions per year



Questions we hold per year, all 29 chapters together (2002–2026). The number of papers held per year differs, so compare years with care.

Chapters asked every year, 2019–2026

Sets, Relations & Functions
Complex Numbers
Quadratic Equations
Matrices
Determinants
Permutations & Combinations
Binomial Theorem
Sequences & Series
Limits, Continuity & Differentiability
Differentiation
Applications of Derivatives
Indefinite Integration
Definite Integration
Area Under Curves
Differential Equations
Straight Lines
Circles
Parabola
Ellipse
Hyperbola
Three Dimensional Geometry
Vector Algebra
Statistics
Probability
Trigonometry
Inverse Trigonometric Functions

No questions in 2025–2026

Mathematical Induction (last asked 2019)
Mathematical Reasoning (last asked 2023)
Statics & Dynamics (last asked 2007)

Based on the questions we hold for those two years; a chapter missing here may simply have been left out of those papers.

Chapter PDFs

One PDF per chapter with every question and its answer: pyq.edloop.in/free-pdfs/

1. Sets, Relations & Functions (321 questions)
2. Complex Numbers (215 questions)
3. Quadratic Equations (238 questions)
4. Matrices (312 questions)
5. Determinants (98 questions)
6. Permutations & Combinations (239 questions)
7. Binomial Theorem (256 questions)
8. Sequences & Series (333 questions)
9. Limits, Continuity & Differentiability (285 questions)
10. Differentiation (107 questions)
11. Applications of Derivatives (241 questions)
12. Indefinite Integration (110 questions)
13. Definite Integration (311 questions)
14. Area Under Curves (178 questions)
15. Differential Equations (255 questions)
16. Straight Lines (230 questions)
17. Circles (200 questions)
18. Parabola (134 questions)
19. Ellipse (123 questions)
20. Hyperbola (101 questions)

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21. Three Dimensional Geometry (416 questions)
22. Vector Algebra (286 questions)
23. Statistics (160 questions)
24. Probability (245 questions)
25. Trigonometry (228 questions)
26. Inverse Trigonometric Functions (108 questions)
27. Mathematical Induction (4 questions)
28. Mathematical Reasoning (132 questions)
29. Statics & Dynamics (17 questions)

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