

JKBOSE Class 10 Mathematics Question Paper(Memory Based)

Time Allowed :3 Hours	Maximum Marks :100	Total questions :35
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General Instructions

Read the following instructions carefully and strictly adhere to them:

1. All questions are compulsory and must be answered in complete sentences; one-word or fragmented answers will not be awarded full marks.
2. Graphic organizers such as web diagrams, flow charts, and tables must be drawn neatly and exactly as presented in the question paper with the correct information filled in.
3. In reference to point 2, answers provided without the required diagrams or tables will not be considered for credit.
4. Use only a blue or black ballpoint/gel pen for writing and drawing; the use of pencils for diagrams is permitted, but colour pencils or sketch pens are strictly prohibited.
5. If multiple responses are provided for a single-answer activity, the entire attempt will be treated as invalid and no marks will be assigned.
6. Maintain the chronological sequence of Sections, Question Numbers, and Sub-activities as per the question paper to ensure systematic evaluation.

1. Prove that $\sqrt{3}$ or $\sqrt{5}$ is an irrational number.

2. Find HCF and LCM using the prime factorisation method for: (i) 56 and 72 (ii) 6, 72, and 120

3. Find the zeroes of a quadratic polynomial (e.g., $x^2 - 3x - 10$ or $4u^2 + 8u$) and verify the

relationship between zeroes and coefficients.

4. Find the HCF of 18 and 24.

5. State whether the following is True or False: $\sqrt{7}$ is a rational number.

6. What is the probability of an impossible event?

7. Write the n^{th} term of an Arithmetic Progression (AP).
