

**Marking Scheme**  
**Class X Session 2023-24**  
**MATHEMATICS STANDARD (Code No.041)**

**TIME: 3 hours**

**MAX.MARKS: 80**

<b>SECTION A</b>		
Section A consists of 20 questions of 1 mark each.		
1.	(b) $xy^2$	1
2.	(b) 1 zero and the zero is '3'	1
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	1
4.	(c) 2 distinct real roots	1
5.	(c) 7	1
6.	(a) 1:2	1
7.	(d) infinitely many	1
8.	(b) $\frac{ac}{b+c}$	1
9.	(b) $100^\circ$	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$	1
12.	(d) $\cos A$	1
13.	(a) $60^\circ$	1
14.	(a) 2 units	1
15.	(a) 10m	1
16.	(b) $\frac{4-\pi}{4}$	1
17.	(b) $\frac{22}{46}$	1
18.	(d) 150	1
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)	1
20.	(c) Assertion (A) is true but reason (R) is false.	1
<b>SECTION B</b>		
Section B consists of 5 questions of 2 marks each.		
21.	<p>Let us assume, to the contrary, that <math>\sqrt{2}</math> is rational.            So, we can find integers <math>a</math> and <math>b</math> such that <math>\sqrt{2} = \frac{a}{b}</math> where <math>a</math> and <math>b</math> are coprime.            So, <math>b\sqrt{2} = a</math>.            Squaring both sides,            we get <math>2b^2 = a^2</math>.            Therefore, 2 divides <math>a^2</math> and so 2 divides <math>a</math>.            So, we can write <math>a = 2c</math> for some integer <math>c</math>.            Substituting for <math>a</math>, we get <math>2b^2 = 4c^2</math>, that is, <math>b^2 = 2c^2</math>.            This means that 2 divides <math>b^2</math>, and so 2 divides <math>b</math>.            Therefore, <math>a</math> and <math>b</math> have at least 2 as a common factor.            But this contradicts the fact that <math>a</math> and <math>b</math> have no common factors other than 1.            This contradiction has arisen because of our incorrect assumption that <math>\sqrt{2}</math> is rational.            So, we conclude that <math>\sqrt{2}</math> is irrational.</p>	<p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p>

# 20key Stage Maths Mark Scheme

**Qualifications and Curriculum  
Authority, Great Britain. Department  
for Education and Skills**

## 20key Stage Maths Mark Scheme:

**Supporting Improving Primary Schools** Paul Lincoln, Geoff Southworth, 2005-06-27 Drawn from the experience of the Essex Primary School Improvement programme this book shows how primary schools in the county have improved their standards subsequent to OFSTED inspection It explores the role of the LEA in supporting schools and their efforts to improve It also looks at the collaborative relationship that LEAs and schools can form and the implications for school leadership and for students The book also sheds light on issues of consultancy information and data handling and evaluating school improvement

**Test Mark Schemes Pack** Qualifications and Curriculum Authority, 2005 Mathematics Tests Qualifications and Curriculum Authority (Great Britain), 2007

**Mathematics tests mark schemes** Qualifications and Curriculum Authority, 2004 *Tests* Qualifications and Curriculum Authority (Great Britain), Great Britain. Department for Education and Employment, Great Britain. Department for Education and Skills, 2007

**Key Maths** David Baker, 2002 Designed to cover all ability levels at Key Stage 3 maths this text features chapter tests to form module tests after a group of chapters extended chapter tests to provide extra consolidation of work to stretch the most able pupils numerous questions for all assessment needs and a numeracy practice section for additional work in this key area for Key Stage 3 supporting the new Framework for Teaching Mathematics The interactive CD ROM version allows the user to cut and paste questions and search by for example a topic key word at a click National Curriculum Levels are also included in the mark scheme

**Mark Schemes Pack** Qualifications and Curriculum Authority, Great Britain. Department for Education and Skills, 2004

**Maths** Mark Patmore, Brian Seager, 2002 This series provides all the practice necessary for the National Tests with brand new questions reflecting the latest curriculum changes Letts authors are examiners and teachers with proven records of helping children to achieve top grades The book's questions and format are similar to the real National Tests and the answer section is clearly laid out for both parents and children Gives children essential practice for SATs success Tests all topics on a need to know basis Builds child's confidence by previewing the test format Detailed marking scheme Predicts a child's National Curriculum level

**National Curriculum Tests**, 2012

**Mark Schemes Pack: Key Stage 2 Tests 2007** Qualifications and Curriculum Authority, Great Britain. Department for Education and Skills, 2007

*Ks3 Mathematics Sats Practice Papers* Richard Parsons, 2002-11-05 Contains 3 full sets of Key Stage 3 Maths practice papers that's 3 calculator allowed papers 3 calculator not allowed papers and 3 mental arithmetic tests This pack also includes a full answer book with hints and a mark scheme to turn test marks into a projected grade This pack covers higher ability levels 5-8

Mark Schemes Pack: Key Stage 2 Tests 1997 School Curriculum and Assessment Authority, 1997

**Tests** Qualifications and Curriculum Authority, 1999

Tests, 1996

*Tests* Qualifications and Curriculum Authority, 1998

**Tests** Qualifications and Curriculum Authority, 2003

*Tests* Qualifications and Curriculum Authority, 2001

**National Tests Pack**, 2001 This official National Tests Pack includes the ACTUAL 2001 National Test papers their Marking Schemes and an easy to use guide

to help students revise for their Key Stage 3 Maths National Tests at ages 13 14 Inside students will find information about what to expect on the tests advice on preparing and revising actual questions and their answers examples and top tips in the margins on each page The guide is written in a straightforward manner and broken up into sections featuring charts boxed text and diagrams that help make the material absolutely clear It has an appealing full colour cover and jolly cartoons liven up the inside text Delightful accessible essential     Key Stage 2 Levels 3-6 1998 Tests : Mark Schemes Pack Qualifications and Curriculum Authority,1998     **Mark Schemes Pack: Key Stage 2 Tests 2005** Qualifications and Curriculum Authority,Great Britain. Department for Education and Skills,2005

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## **Table of Contents 20key Stage Maths Mark Scheme**

1. Understanding the eBook 20key Stage Maths Mark Scheme
  - The Rise of Digital Reading 20key Stage Maths Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying 20key Stage Maths Mark Scheme
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 20key Stage Maths Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from 20key Stage Maths Mark Scheme

- Personalized Recommendations
- 20key Stage Maths Mark Scheme User Reviews and Ratings
- 20key Stage Maths Mark Scheme and Bestseller Lists
- 5. Accessing 20key Stage Maths Mark Scheme Free and Paid eBooks
  - 20key Stage Maths Mark Scheme Public Domain eBooks
  - 20key Stage Maths Mark Scheme eBook Subscription Services
  - 20key Stage Maths Mark Scheme Budget-Friendly Options
- 6. Navigating 20key Stage Maths Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - 20key Stage Maths Mark Scheme Compatibility with Devices
  - 20key Stage Maths Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 20key Stage Maths Mark Scheme
  - Highlighting and Note-Taking 20key Stage Maths Mark Scheme
  - Interactive Elements 20key Stage Maths Mark Scheme
- 8. Staying Engaged with 20key Stage Maths Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 20key Stage Maths Mark Scheme
- 9. Balancing eBooks and Physical Books 20key Stage Maths Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 20key Stage Maths Mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 20key Stage Maths Mark Scheme
  - Setting Reading Goals 20key Stage Maths Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 20key Stage Maths Mark Scheme

- Fact-Checking eBook Content of 20key Stage Maths Mark Scheme
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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