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

TIME: 3 hours **MAX.MARKS: 80**

	SECTION A	
	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) $\frac{a1}{a2} = \frac{b1}{b2} \neq \frac{c1}{c2}$	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°	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2-a^2}}{b}$	1
12.	(d) cos A	1
13.	(a) 60°	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
	SECTION B	
	Section B consists of 5 questions of 2 marks each.	
21.	Let us assume, to the contrary, that $\sqrt{2}$ is rational. So, we can find integers a and b such that $\sqrt{2} = \frac{a}{b}$ where a and b are coprime. ½ So, b $\sqrt{2}$ = a. Squaring both sides, we get $2b^2 = a^2$. ½ Therefore, 2 divides a^2 and so 2 divides a. So, we can write a = 2c for some integer c. Substituting for a, we get $2b^2 = 4c^2$, that is, $b^2 = 2c^2$. ½ This means that 2 divides b^2, and so 2 divides b Therefore, a and b have at least 2 as a common factor. But this contradicts the fact that a and b have no common factors other than 1. ½ This contradiction has arisen because of our incorrect assumption that $\sqrt{2}$ is rational. So, we conclude that $\sqrt{2}$ is irrational.	

14 Maths Mark Scheme

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Andrew Lam - S5 Core Maths Mock Paper 2019 - Marking Scheme Andrew Lam, *Key Maths* David Baker,1998-01-15 Contains chapter tests to form module tests after a group of chapters Extended chapter tests to provide extra consolidation of work that stretch the most able pupil s Numerous questions for all assessment needs A new numeracy pratice section for additional work in this key area for Key Stage 3 supporting the National Numeracy Framework 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 **Sat Attack Maths** Anne Frobisher,Len,2004-12 SAT Attack Maths is the perfect 10 week revision programme for both independent and whole class maths teaching Key Maths GCSE ,2003-04 Written to support and enhance assessment alongside the pupil texts these resources offer a range of material for the AQA specification They provide test questions for each chapter together with detailed mark schemes to make assessment easy Two versions of each question are provided one allows pupils to write their answers in the spaces provided and the other requires pupils to have separate writing paper Questions can be grouped according to needs Master grids are provided to cut and paste tests together in a consistent format to use the resource in any order Chapter tests can be grouped to form a module test after chapters End of chapter examinations can also be produced in this way A free non calculator supplement organised by unit chapter is also included in this resource **Key Maths GCSE** , **Key Maths** ,2002 These highly acclaimed resources are now available in the traditional file and a new interactive CD ROM format using ExamPro Technology for Year 8 **Key Maths GCSE** David Baker,Paul Hogan,Chris Humble,Barbara Job,Peter Sherran,2002 Test questions are provided for each chapter of this textbook together with detailed mark schemes to make assessment easy Two versions of each question are provided One allows pupils to write their answers in the spaces provided and the other requires pupils to have separate writing paper Questions can be grouped according to needs Master grids are provided to cut and paste tests together in a consistent format to use the resource in any order Chapter tests can be grouped to form a module test after chapters End of chapter examinations can also be produced in this way A free non calculator supplement organized by unit chapter is also included in this resource Oswaal ISC Question Bank Class 12 Mathematics | Chapterwise and Topicwise | Solved Papers | For Board Exams 2025 Oswaal Editorial Board,2024-03-02 Oswaal ISC Question Bank Class 12 Mathematics Chapterwise and Topicwise Solved Papers For Board Exams 2025 *Educart CBSE Maths Standard Sample Question Papers For Class 10 (For March 2020 Exam)* Education Experts,2019-10-20 NEW VERSION Available now based on the 20th September 2019 CBSE Sample Paper This Maths Standard book is extra special as it was prepared by a CBSE author who knows about CBSE markings official paper setting and CBSE Class 10th Exam patterns more than any other CBSE expert in the country We were lucky to have him prepare the papers of this Maths book It s been bought by more than 20 000 students since it came out in October 2019 and is our best seller already This Book Covers the following 10 Practice

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