

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) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	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°	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.	<p>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. So, $b\sqrt{2} = a$. Squaring both sides, we get $2b^2 = a^2$. 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, $b^2 = 2c^2$. 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. This contradiction has arisen because of our incorrect assumption that $\sqrt{2}$ is rational. So, we conclude that $\sqrt{2}$ is irrational.</p>	<p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p>

Mark Scheme Maths 9712 November 2014

SB Merriam



Mark Scheme Maths 9712 November 2014:

The book delves into Mark Scheme Maths 9712 November 2014. Mark Scheme Maths 9712 November 2014 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mark Scheme Maths 9712 November 2014, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mark Scheme Maths 9712 November 2014
 - Chapter 2: Essential Elements of Mark Scheme Maths 9712 November 2014
 - Chapter 3: Mark Scheme Maths 9712 November 2014 in Everyday Life
 - Chapter 4: Mark Scheme Maths 9712 November 2014 in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Mark Scheme Maths 9712 November 2014. This chapter will explore what Mark Scheme Maths 9712 November 2014 is, why Mark Scheme Maths 9712 November 2014 is vital, and how to effectively learn about Mark Scheme Maths 9712 November 2014.
 3. In chapter 2, this book will delve into the foundational concepts of Mark Scheme Maths 9712 November 2014. The second chapter will elucidate the essential principles that must be understood to grasp Mark Scheme Maths 9712 November 2014 in its entirety.
 4. In chapter 3, the author will examine the practical applications of Mark Scheme Maths 9712 November 2014 in daily life. The third chapter will showcase real-world examples of how Mark Scheme Maths 9712 November 2014 can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Mark Scheme Maths 9712 November 2014 in specific contexts. The fourth chapter will explore how Mark Scheme Maths 9712 November 2014 is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Mark Scheme Maths 9712 November 2014. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mark Scheme Maths 9712 November 2014.

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