

**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) $xy^2$
2.	(b) 1 zero and the zero is '3'
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$
4.	(c) 2 distinct real roots
5.	(c) 7
6.	(a) 1:2
7.	(d) infinitely many
8.	(b) $\frac{ac}{b+c}$
9.	(b) $100^\circ$
10.	(d) 11 cm
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$
12.	(d) $\cos A$
13.	(a) $60^\circ$
14.	(a) 2 units
15.	(a) 10m
16.	(b) $\frac{4-\pi}{4}$
17.	(b) $\frac{22}{46}$
18.	(d) 150
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
20.	(c) Assertion (A) is true but reason (R) is false.
<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.</p> <p>So, <math>b\sqrt{2} = a</math>.          Squaring both sides,          we get <math>2b^2 = a^2</math>.</p> <p>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>

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**Oxford Revise: Edexcel GCSE Maths Higher** Naomi Bartholomew-Millar,Paul Hunt,Victoria Trumper,2024-10-10

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**Edexcel A Level Maths: Year 1 + Year 2 Mechanics Student Workbook** Steve Cavill,2018-12-13 This Student Workbook provides supplementary support and practice for the statistics topics in Edexcel s linear specification Designed to work alongside the Oxford AS and A Level Student Books this Workbook offers both focussed revision sections and exam style practice The revision sections provide quick recaps and highlight common exam errors The exam style practice questions offer full coverage of the Assessment Objectives including the new emphasis on problem solving and modelling With guidance on Edexcel s Large dataset this Workbook provides realistic practice for the actual exam Answers are in the back of the book with full step by step solutions provided online The 2017 A Level specification contains 100% prescribed content meaning statistics has become mandatory for the first time since 2000 This Workbook is the perfect course companion for both the confident and less confident statisticians

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