

Marking Scheme
Class- X Session- 2021-22

TERM 1

Subject- Mathematics (Standard)

SECTION A			
QN	Correct Option	HINTS/SOLUTION	MAR KS
1	(b)	Least composite number is 4 and the least prime number is 2. LCM(4,2) : HCF(4,2) = 4:2 = 2:1	1
2	(a)	For lines to coincide: $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ so, $\frac{5}{15} = \frac{7}{21} = \frac{-3}{-k}$ i.e. k= 9	1
3	(b)	By Pythagoras theorem The required distance = $\sqrt{(200^2 + 150^2)}$ = $\sqrt{(40000 + 22500)} = \sqrt{62500} = 250m$. So the distance of the girl from the starting point is 250m.	1
4	(d)	Area of the Rhombus = $\frac{1}{2} d_1 d_2 = \frac{1}{2} \times 24 \times 32 = 384 \text{ cm}^2$. Using Pythagoras theorem side ² = $(\frac{1}{2} d_1)^2 + (\frac{1}{2} d_2)^2 = 12^2 + 16^2 = 144 + 256 = 400$ Side = 20cm Area of the Rhombus = base x altitude 384 = 20 x altitude So altitude = 384/20 = 19.2cm	1
5	(a)	Possible outcomes are (HH), (HT), (TH), (TT) Favorable outcomes(at the most one head) are (HT), (TH), (TT) So probability of getting at the most one head = 3/4	1
6	(d)	Ratio of altitudes = Ratio of sides for similar triangles So AM:PN = AB:PQ = 2:3	1
7	(b)	$2\sin^2\beta - \cos^2\beta = 2$ Then $2\sin^2\beta - (1 - \sin^2\beta) = 2$ $3\sin^2\beta = 3$ or $\sin^2\beta = 1$ β is 90°	1
8	(c)	Since it has a terminating decimal expansion, so prime factors of the denominator will be 2,5	1
9	(a)	Lines x=a is a line parallel to y axis and y=b is a line parallel to x axis. So they will intersect.	1
10	(d)	Distance of point A(-5,6) from the origin(0,0) is $\sqrt{(0+5)^2 + (0-6)^2} = \sqrt{25+36} = \sqrt{61}$ units	1
11	(b)	$a^2 = 23/25$, then $a = \sqrt{23/5}$, which is irrational	1
12	(c)	LCM X HCF = Product of two numbers $36 \times 2 = 18 \times x$ $x = 4$	1
13	(b)	$\tan A = \sqrt{3} = \tan 60^\circ$ so $\angle A = 60^\circ$. Hence $\angle C = 30^\circ$. So $\cos A \cos C - \sin A \sin C = (1/2) \times (\sqrt{3}/2) - (\sqrt{3}/2) \times (1/2) = 0$	1
14	(a)	$1x + 1x + 2x = 180^\circ$, $x = 45^\circ$. $\angle A$, $\angle B$ and $\angle C$ are 45° , 45° and 90° resp. $\frac{\sec A}{\operatorname{cosec} B} - \frac{\tan A}{\cot B} = \frac{\sec 45}{\operatorname{cosec} 45} - \frac{\tan 45}{\cot 45} = \frac{\sqrt{2}}{\sqrt{2}} - \frac{1}{1} = 1 - 1 = 0$	1

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Padhraic Smyth



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Table of Contents Maths Studies 11 November 2013 Mark Scheme

1. Understanding the eBook Maths Studies 11 November 2013 Mark Scheme
 - The Rise of Digital Reading Maths Studies 11 November 2013 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Studies 11 November 2013 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 Maths Studies 11 November 2013 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Studies 11 November 2013 Mark Scheme
 - Personalized Recommendations
 - Maths Studies 11 November 2013 Mark Scheme User Reviews and Ratings
 - Maths Studies 11 November 2013 Mark Scheme and Bestseller Lists

5. Accessing Maths Studies 11 November 2013 Mark Scheme Free and Paid eBooks
 - Maths Studies 11 November 2013 Mark Scheme Public Domain eBooks
 - Maths Studies 11 November 2013 Mark Scheme eBook Subscription Services
 - Maths Studies 11 November 2013 Mark Scheme Budget-Friendly Options
6. Navigating Maths Studies 11 November 2013 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Studies 11 November 2013 Mark Scheme Compatibility with Devices
 - Maths Studies 11 November 2013 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Studies 11 November 2013 Mark Scheme
 - Highlighting and Note-Taking Maths Studies 11 November 2013 Mark Scheme
 - Interactive Elements Maths Studies 11 November 2013 Mark Scheme
8. Staying Engaged with Maths Studies 11 November 2013 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Studies 11 November 2013 Mark Scheme
9. Balancing eBooks and Physical Books Maths Studies 11 November 2013 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Studies 11 November 2013 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Studies 11 November 2013 Mark Scheme
 - Setting Reading Goals Maths Studies 11 November 2013 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Studies 11 November 2013 Mark Scheme
 - Fact-Checking eBook Content of Maths Studies 11 November 2013 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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