

GR 10 MATHS – EXAM MEMOS

M
2

NATIONAL EXEMPLAR PAPER 1

1.1.1 $(m - 2n)(m^2 - 6mn - 8n^2)$

$$= m^3 - 6m^2n - mn^2 - 2m^2n + 12mn^2 + 2n^3$$

$$= m^3 - 8m^2n + 11mn^2 + 2n^3 \quad \leftarrow$$

1.1.2 $\frac{x^2 + 1}{x^2 - x + 1} - \frac{4x^2 - 3x - 1}{4x + 1}$

$$= \frac{(x+1)(x^2 - x + 1)}{(x^2 - x + 1)} - \frac{(4x+1)(x-1)}{(4x+1)}$$

$$= (x+1) - (x-1)$$

$$= x+1 - x+1$$

$$= 2 \quad \leftarrow$$

1.2.1 $6x^2 - 7x - 20$

$$= (2x-5)(3x+4) \quad \leftarrow$$

1.2.2 $a^2 + a - 2ab - 2b$

$$= a(a+1) - 2b(a+1)$$

$$= (a+1)(a-2b) \quad \leftarrow$$

1.3 $49 < 51 < 64 \quad \dots \text{ i.e. } 51 \text{ lies between } 49 \text{ and } 64$

$$\therefore 7 < \sqrt{51} < 8 \quad \dots \text{ taking the square root}$$

$$\text{ i.e. } \sqrt{51} \text{ lies between } 7 \text{ and } 8 \quad \leftarrow$$



1.4 Let $x = 0.\dot{2}4\dot{5}$

$$\therefore x = 0.245245\dots \quad \dots \text{ ①}$$

$$\times 1000) \therefore 1000x = 245.245245\dots \quad \dots \text{ ②}$$

$$\text{ ②} - \text{ ①}: \therefore 999x = 245$$

$$\therefore x = \frac{245}{999}$$

\dots i.e. x can be expressed as $\frac{a}{b}$ where

$$a \in \mathbb{Z} \text{ and } b \in \mathbb{Z}$$

$\therefore x$ is a rational number

2.1.1 $x^2 - 4x = 21$

$$\therefore x^2 - 4x - 21 = 0$$

$$\therefore (x+3)(x-7) = 0$$

$$\therefore x+3 = 0 \quad \text{or} \quad x-7 = 0$$

$$\therefore x = -3 \quad \leftarrow \quad \therefore x = 7 \quad \leftarrow$$

2.1.2 $3x^{\frac{5}{6}} = 96$

$$+ 3) \therefore x^{\frac{5}{6}} = 32$$

$$\therefore \left(x^{\frac{5}{6}}\right)^{\frac{4}{5}} = (32)^{\frac{4}{5}}$$

$$\therefore x = 2^4$$

$$\therefore x = 16 \quad \leftarrow$$



2.1.3 $\frac{2\sqrt{x}}{3S} = R$

$$\times 3S) \therefore 2\sqrt{x} = 3SR$$

$$+ 2) \therefore \sqrt{x} = \frac{3SR}{2}$$

$$\text{ Square: } \therefore x = \frac{9S^2R^2}{4} \quad \leftarrow$$

2.2 $6q + 7p = 3 \quad \dots \text{ ①}$

$$2q + p = 5 \quad \dots \text{ ②}$$

$$\text{ ②} \times 3: 6q + 3p = 15 \quad \dots \text{ ③}$$

$$\text{ ③} - \text{ ①}: \therefore 4p = -12$$

$$\therefore p = -3 \quad \leftarrow$$

$$\text{ ②}: \therefore 2q - 3 = 5$$

$$\therefore 2q = 8$$

$$\therefore q = 4 \quad \leftarrow$$



3.1.1 The 1st 3 terms:

$$3(3) + 1 : 2(3) : 3(3) - 7$$

$$\therefore 10 : 6 : 2 \quad \leftarrow$$

3.1.2 The difference is -4

$$\therefore \text{ in } T_n = an + b: a = -4$$

$$\text{ \& } T_0 = b = 14 \quad \dots \text{ the term before the } 1^{\text{st}} \text{ term}$$

$$\therefore T_n = -4n + 14 \quad \leftarrow$$

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Table of Contents Grade 10 Pure Maths Paper 1 2014 November

1. Understanding the eBook Grade 10 Pure Maths Paper 1 2014 November
 - The Rise of Digital Reading Grade 10 Pure Maths Paper 1 2014 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Pure Maths Paper 1 2014 November
 - 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 Grade 10 Pure Maths Paper 1 2014 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Pure Maths Paper 1 2014 November
 - Personalized Recommendations
 - Grade 10 Pure Maths Paper 1 2014 November User Reviews and Ratings
 - Grade 10 Pure Maths Paper 1 2014 November and Bestseller Lists
5. Accessing Grade 10 Pure Maths Paper 1 2014 November Free and Paid eBooks
 - Grade 10 Pure Maths Paper 1 2014 November Public Domain eBooks
 - Grade 10 Pure Maths Paper 1 2014 November eBook Subscription Services
 - Grade 10 Pure Maths Paper 1 2014 November Budget-Friendly Options

6. Navigating Grade 10 Pure Maths Paper 1 2014 November eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 10 Pure Maths Paper 1 2014 November Compatibility with Devices
 - Grade 10 Pure Maths Paper 1 2014 November Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Pure Maths Paper 1 2014 November
 - Highlighting and Note-Taking Grade 10 Pure Maths Paper 1 2014 November
 - Interactive Elements Grade 10 Pure Maths Paper 1 2014 November
8. Staying Engaged with Grade 10 Pure Maths Paper 1 2014 November
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 10 Pure Maths Paper 1 2014 November
9. Balancing eBooks and Physical Books Grade 10 Pure Maths Paper 1 2014 November
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Pure Maths Paper 1 2014 November
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 10 Pure Maths Paper 1 2014 November
 - Setting Reading Goals Grade 10 Pure Maths Paper 1 2014 November
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 10 Pure Maths Paper 1 2014 November
 - Fact-Checking eBook Content of Grade 10 Pure Maths Paper 1 2014 November
 - 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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