

# 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  $49 < 51 < 64 \quad \dots$  i.e. 51 lies between 49 and 64

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

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



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

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

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

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

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

$\dots$  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  $3x^{\frac{5}{3}} = 96$

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

$$\therefore \left(x^{\frac{5}{3}}\right)^{\frac{3}{5}} = (2^5)^{\frac{3}{5}}$$

$$\therefore x = 2^3$$

$$\therefore x = 8 \quad \leftarrow$$



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

$$2q + p = 5 \quad \dots \textcircled{2}$$

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

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

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

$$\textcircled{2}: \therefore 2q - 3 = 5$$

$$\therefore 2q = 8$$

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



3.1.1 The 1<sup>st</sup> 3 terms:

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

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

3.1.2 The difference is -4

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

$$\& T_0 = b = 14 \quad \dots$$
 the term before the 1<sup>st</sup> term

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

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## **Table of Contents Grade10 November2014 Pure Maths Exam Paper1**

1. Understanding the eBook Grade10 November2014 Pure Maths Exam Paper1
  - The Rise of Digital Reading Grade10 November2014 Pure Maths Exam Paper1
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade10 November2014 Pure Maths Exam Paper1
  - 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 Grade10 November2014 Pure Maths Exam Paper1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade10 November2014 Pure Maths Exam Paper1
  - Personalized Recommendations
  - Grade10 November2014 Pure Maths Exam Paper1 User Reviews and Ratings
  - Grade10 November2014 Pure Maths Exam Paper1 and Bestseller Lists

5. Accessing Grade10 November2014 Pure Maths Exam Paper1 Free and Paid eBooks
  - Grade10 November2014 Pure Maths Exam Paper1 Public Domain eBooks
  - Grade10 November2014 Pure Maths Exam Paper1 eBook Subscription Services
  - Grade10 November2014 Pure Maths Exam Paper1 Budget-Friendly Options
6. Navigating Grade10 November2014 Pure Maths Exam Paper1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade10 November2014 Pure Maths Exam Paper1 Compatibility with Devices
  - Grade10 November2014 Pure Maths Exam Paper1 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade10 November2014 Pure Maths Exam Paper1
  - Highlighting and Note-Taking Grade10 November2014 Pure Maths Exam Paper1
  - Interactive Elements Grade10 November2014 Pure Maths Exam Paper1
8. Staying Engaged with Grade10 November2014 Pure Maths Exam Paper1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade10 November2014 Pure Maths Exam Paper1
9. Balancing eBooks and Physical Books Grade10 November2014 Pure Maths Exam Paper1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade10 November2014 Pure Maths Exam Paper1
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade10 November2014 Pure Maths Exam Paper1
  - Setting Reading Goals Grade10 November2014 Pure Maths Exam Paper1
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade10 November2014 Pure Maths Exam Paper1
  - Fact-Checking eBook Content of Grade10 November2014 Pure Maths Exam Paper1
  - 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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