

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

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

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

$$\therefore x = 2^4$$

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



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

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

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

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

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

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

$$\therefore 2q = 8$$

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



3.1.1 The 1st 3 terms:

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

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

3.1.2 The difference is -4

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

$$\& T_0 = b = 14 \quad \dots$$
 the term before the 1st term

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

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**James A. Middleton, Jinfa Cai, Stephen
Hwang**



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Table of Contents Question Paper Of Mathematics Paper1 For Grade10 Term4 2014

1. Understanding the eBook Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - The Rise of Digital Reading Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - 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 Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper Of Mathematics Paper1 For Grade10 Term4 2014

- Personalized Recommendations
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 User Reviews and Ratings
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 and Bestseller Lists
5. Accessing Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 Free and Paid eBooks
- Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 Public Domain eBooks
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 eBook Subscription Services
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 Budget-Friendly Options
6. Navigating Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 eBook Formats
- ePub, PDF, MOBI, and More
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 Compatibility with Devices
 - Question Paper Of Mathematics Paper1 For Grade10 Term4 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - Highlighting and Note-Taking Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - Interactive Elements Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
8. Staying Engaged with Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
9. Balancing eBooks and Physical Books Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
- Setting Reading Goals Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Question Paper Of Mathematics Paper1 For Grade10 Term4 2014

- Fact-Checking eBook Content of Question Paper Of Mathematics Paper1 For Grade10 Term4 2014
- 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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