

2.5	The new series/<i>Die nuwe reeks</i> is $16 + 44 + 72 + \dots + 1752$ $16 + 28(n - 1) = 1752$ $1736 = 28(n - 1)$ $62 = n - 1$ $n = 63$ OR/OF $2 + 9 + \underline{16} + 23 + 30 + 37 + \underline{44} + 51 + \dots + \underline{1752}$ T_3 is divisible by /is deelbaar deur 4 Then $T_7, T_{11}, T_{15}, \dots, T_{251}$ are divisible by 4, thus each 4th term is divisible by 4. Daarna is $T_7, T_{11}, T_{15}, \dots, T_{251}$ deelbaar deur 4, d.w.s. elke 4^{de} term is deelbaar deur 4. $\therefore$ number of terms divisible by 4 will be $= \frac{251 - 3}{4} + 1 = 63$ $\therefore$ aantal terme deelbaar deur 4 sal wees $= \frac{251 - 3}{4} + 1 = 63$ OR/OF Position of terms divisible by 4: $3 ; 7 ; 11 ; \dots ; 247 ; 251$ $T_n = 4n - 1 = 251$ $4n = 252$ $n = 63$	✓✓ generating new series divisible by 4/ <i>vorming van nuwe reeks deelbaar deur 4</i> ✓ $T_n = 1752$ ✓ 63 (4)
	$\therefore T_3$ is divisible by 4/ <i>is deelbaar deur 4</i> ✓ identifying terms divisible by 4/ <i>identifiseer terme deelbaar deur 4</i> ✓ reasoning/redenering ✓ 63 (4) ✓✓ generating sequence involving position of terms/<i>vorming van reeks i.t.v. posisie van terme</i> ✓ $T_n = 251$ ✓ 63 (4)	

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Table of Contents Maths Paper 1 Exemplar 2014 Memo

1. Understanding the eBook Maths Paper 1 Exemplar 2014 Memo
 - The Rise of Digital Reading Maths Paper 1 Exemplar 2014 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Exemplar 2014 Memo
 - 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 Paper 1 Exemplar 2014 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Exemplar 2014 Memo

- Personalized Recommendations
- Maths Paper 1 Exemplar 2014 Memo User Reviews and Ratings
- Maths Paper 1 Exemplar 2014 Memo and Bestseller Lists
- 5. Accessing Maths Paper 1 Exemplar 2014 Memo Free and Paid eBooks
 - Maths Paper 1 Exemplar 2014 Memo Public Domain eBooks
 - Maths Paper 1 Exemplar 2014 Memo eBook Subscription Services
 - Maths Paper 1 Exemplar 2014 Memo Budget-Friendly Options
- 6. Navigating Maths Paper 1 Exemplar 2014 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 1 Exemplar 2014 Memo Compatibility with Devices
 - Maths Paper 1 Exemplar 2014 Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 1 Exemplar 2014 Memo
 - Highlighting and Note-Taking Maths Paper 1 Exemplar 2014 Memo
 - Interactive Elements Maths Paper 1 Exemplar 2014 Memo
- 8. Staying Engaged with Maths Paper 1 Exemplar 2014 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 1 Exemplar 2014 Memo
- 9. Balancing eBooks and Physical Books Maths Paper 1 Exemplar 2014 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 1 Exemplar 2014 Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 1 Exemplar 2014 Memo
 - Setting Reading Goals Maths Paper 1 Exemplar 2014 Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 1 Exemplar 2014 Memo

- Fact-Checking eBook Content of Maths Paper 1 Exemplar 2014 Memo
- 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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