



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ACCOUNTING P2

MARKING GUIDELINES

PREPARATORY EXAMINATION

SEPTEMBER 2023

MARKS: 150

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1. Unless otherwise stated in the marking guidelines, penalties for foreign items are applied only if the candidate is not losing marks elsewhere in the question for that item (no penalty for misplaced item).
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Table of Contents Gauteng Memo September Accounting Grade12 2014

1. Understanding the eBook Gauteng Memo September Accounting Grade12 2014
 - The Rise of Digital Reading Gauteng Memo September Accounting Grade12 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Memo September Accounting Grade12 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 Gauteng Memo September Accounting Grade12 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Memo September Accounting Grade12 2014
 - Personalized Recommendations
 - Gauteng Memo September Accounting Grade12 2014 User Reviews and Ratings
 - Gauteng Memo September Accounting Grade12 2014 and Bestseller Lists
5. Accessing Gauteng Memo September Accounting Grade12 2014 Free and Paid eBooks
 - Gauteng Memo September Accounting Grade12 2014 Public Domain eBooks
 - Gauteng Memo September Accounting Grade12 2014 eBook Subscription Services
 - Gauteng Memo September Accounting Grade12 2014 Budget-Friendly Options
6. Navigating Gauteng Memo September Accounting Grade12 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gauteng Memo September Accounting Grade12 2014 Compatibility with Devices
 - Gauteng Memo September Accounting Grade12 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng Memo September Accounting Grade12 2014
 - Highlighting and Note-Taking Gauteng Memo September Accounting Grade12 2014
 - Interactive Elements Gauteng Memo September Accounting Grade12 2014

8. Staying Engaged with Gauteng Memo September Accounting Grade12 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Memo September Accounting Grade12 2014
9. Balancing eBooks and Physical Books Gauteng Memo September Accounting Grade12 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Memo September Accounting Grade12 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gauteng Memo September Accounting Grade12 2014
 - Setting Reading Goals Gauteng Memo September Accounting Grade12 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gauteng Memo September Accounting Grade12 2014
 - Fact-Checking eBook Content of Gauteng Memo September Accounting Grade12 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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web a few daily life examples of the doppler effect are a when you stand beside a police radar b the doppler effect is used by meteorologists to track storms c doctors use the doppler effect in hospitals to diagnose heart problems d traffic police make use of the doppler effect a radar gun to check the speed of the oncoming vehicles

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web doppler effect bat and insect problem with solution problem statement a bat is moving in still air toward an insect at constant speed $v_b = 7 \text{ m/s}$ the insect is moving away from the bat at constant speed v_i the bat emits ultrasounds of frequency ν_0

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web solution velocity of observer $v_o = 5 \text{ m/s}$ velocity of sound $v_s = 340 \text{ m/s}$ according to doppler's effect frequency f_v $v_o = 3 \text{ f} = 335 \text{ Hz}$ $335 \text{ Hz} \times \frac{340 \text{ m/s}}{340 \text{ m/s} - 5 \text{ m/s}} = 350 \text{ Hz}$ example solve problems on doppler effect where non linear motion is