



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICAL LITERACY P1

2021

MARKS: 150

TIME: 3 hours

**This question paper consists of 15 pages,
1 answer sheet and an addendum with 3 annexures.**

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**St. Louis Public Schools (Saint Louis,
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Table of Contents Grade 1question Paper 2013

1. Understanding the eBook Grade 1question Paper 2013
 - The Rise of Digital Reading Grade 1question Paper 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1question Paper 2013
 - 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 1question Paper 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1question Paper 2013
 - Personalized Recommendations
 - Grade 1question Paper 2013 User Reviews and Ratings
 - Grade 1question Paper 2013 and Bestseller Lists

5. Accessing Grade 1question Paper 2013 Free and Paid eBooks
 - Grade 1question Paper 2013 Public Domain eBooks
 - Grade 1question Paper 2013 eBook Subscription Services
 - Grade 1question Paper 2013 Budget-Friendly Options
6. Navigating Grade 1question Paper 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1question Paper 2013 Compatibility with Devices
 - Grade 1question Paper 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1question Paper 2013
 - Highlighting and Note-Taking Grade 1question Paper 2013
 - Interactive Elements Grade 1question Paper 2013
8. Staying Engaged with Grade 1question Paper 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1question Paper 2013
9. Balancing eBooks and Physical Books Grade 1question Paper 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1question Paper 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1question Paper 2013
 - Setting Reading Goals Grade 1question Paper 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1question Paper 2013
 - Fact-Checking eBook Content of Grade 1question Paper 2013
 - 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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`bwlabel` `bw conn` returns a label matrix where `conn` specifies the connectivity `l n` `bwlabel` also returns `n` the number of connected objects found in `bw`

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`conncomp` description example `bins conncomp g` returns the connected components of graph `g` as `bins` the bin numbers indicate which component each node in the graph belongs to

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web find the connected components in the array `cc bwconncomp bw cc` struct with fields `connectivity 26 imagesize 3 3 3 numobjects 2 pixelidylist 5x1 double 3x1 double` calculate centroids of the objects in the array `s regionprops cc centroid s 2 1` struct array with fields `centroid`

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