



KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

**MATHEMATICAL LITERACY
COMMON TEST
SEPTEMBER 2023
MARKING GUIDELINE**

MARKS: 100

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy (Answer)
C	Conversion
S	Simplification
RT/RG/RD	Reading from a table/ graph/ diagram
NPR	No penalty for correct rounding
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
J	Justification
R	Rounding off
F	deriving a formula
E	Explanation
U	Units
AO	Answer only full marks

This marking guideline consists of 6 pages.

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Design Recommendations for Intelligent Tutoring Systems: Volume 9 - Competency-Based Scenario Design Anne Sinatra, Arthur C. Graesser, Xiangen Hu, Benjamin Goldberg, Andrew J. Hampton, Joan H. Johnston, 2022-02-02 This book focuses on the topic of competency based scenario design as it relates to Intelligent Tutoring Systems ITSs The current book is the ninth in a series of books that examine key topics in ITSs The chapters in this book specifically relate the work presented to applications for the Generalized Intelligent Framework for Tutoring GIFT Sottolare Brawner Goldberg Sottolare Brawner Sinatra Johnston 2017 GIFT is an open source domain independent service oriented modular architecture for ITSs GIFT has specifically been designed to allow for reusability of the GIFT architecture GIFT tools and instructional content materials Further GIFT has been designed with the goals of reducing the amount of time necessary to author ITSs and reducing the skill level required for the authoring process GIFT can be used to create ITSs that can be distributed both locally on a computer and virtually in the Cloud In addition to creating ITSs GIFT can be used to examine instructional outcomes and conduct research The topic of this book Competency Based Scenario Design is highly relevant to the development of ITSs Scenarios are information rich task problem contexts that are closely aligned with real world situations that professionals face in their jobs The tasks problems exhibit ecological validity rather than stripped down abstract simplifications Developers of ITSs and other adaptive instructional systems need to have principled guidance on how to design these scenarios An example scenario may be a close match to a particular situation in the past but not be representative of a large range of situations that professionals experience in their job An example scenario may be very realistic but not provide reliable and valid assessments of the learners performance to guide assessments summative formative or stealth Research teams that build high quality scenarios need to include expertise in the targeted profession assessment learning science and computer science The current book brings together experts on ITSs to discuss their work as it applies to Competency Based Scenario Design We believe that this book can be used as a resource for those who have an interest in developing Scenarios for ITSs and who want to learn more about how to do so **Who's who in the South and Southwest**, 2002 Includes names from the States of Alabama Arkansas the District of Columbia Florida Georgia Kentucky Louisiana Mississippi North Carolina Oklahoma South Carolina Tennessee Texas and Virginia and Puerto Rico and the Virgin Islands **Who's Who in the South and Southwest, 2001-2002** Marquis Who's Who, 2001-11 Guidelines for Teaching Grade 1 Mathematics Texas Education Agency, 1994*

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