

## QUESTION 9

In the diagram,  $ABCD$  is a parallelogram with  $AB = 14$  units.  $AD$  is produced to  $E$  such that  $AD : DE = 4 : 3$ .  $EB$  intersects  $DC$  in  $F$ .  $EB = 21$  units.



- 9.1 Calculate, with reasons, the length of  $FB$ . (3)
- 9.2 Prove, with reasons, that  $\triangle EDF \parallel \triangle EAB$ . (3)
- 9.3 Calculate, with reasons, the length of  $FC$ . (3)
- [9]

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# Maths Paper 1 November 2013 Johannesburg

**Marcel A. Müller**



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**ICT and Society** Kai Kimppa, Diane Whitehouse, Tiina Kuusela, Jackie Phahlamohlaka, 2014-07-25 This book constitutes the refereed proceedings of the 11th IFIP TC 9 International Conference on Human Choice and Computers HCC11 2014 held in Turku Finland in July August 2014 The 29 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are based on both academic research and the professional experience of information technologists working in the field They have been organized in the following topical sections society social responsibility ethics and ICT the history of computing and its meaning for the future peace war cyber security and ICT and health care well being and ICT *ICEL 2018 13th International Conference on e-Learning* Professor Eunice Ivala, 2018-07-05 **African Governance Report III 2013**, 2013 The African Governance Report the most comprehensive report on governance in Africa assesses and monitors the progress of African countries on governance identifies capacity gaps in governance institutions and proposes policies and strategic interventions to improve governance on the continent This third edition of the Report while continuing to monitor governance trends adopts a thematic approach elections and the management of diversity in Africa Elections are central to democratic governance and the political management of diversity in plural societies While elections are held with greater regularity in Africa their content and quality remains suspect in many countries with Africa s rich diversity deployed as a combustible tool in electoral conflicts Elections have often triggered conflict with violence tensions acrimonies and sharp elite divisions surrounding electoral processes and outcomes a worrying trend for Africa s democratic future The Report investigates elections in the face of managing diversity in Africa It recommends major electoral institutional political and constitutional reforms to enable elections to facilitate the democratic management of diversity while significantly improving their quality and credibility These include reform of the party system to make it more inclusive and democratic a move to more proportional electoral systems and an increase in the autonomy and effectiveness of election management boards The Report argues that regional and subregional initiatives and frameworks for elections democracy and governance have to be implemented and monitored to improve electoral performance and promote democratic consolidation and stability Page 4 of cover **Research for Educational Change** Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible

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Becoming a teacher Josef de Beer, 2020-12-31 This book disseminates original research on learning in and from practice in pre service teacher education Authors such as Lederman and Lederman describe the student teaching practicum or work integrated learning WIL which is an essential component of pre service teacher education as the elephant in the room These authors note that the capstone experience in any teacher education programme is the student teaching practicum after all this is where the rubber hits the road However many teacher educators will agree that this WIL component is sometimes very insufficient in assisting the student teacher to develop their own footing and voice as a teacher This is the gap that this research book addresses Most of the chapters in the book report empirical data with the exception of

two chapters that can be categorized as systematic reviews WIL is addressed from various angles in the chapters Chapter 6 focuses on research related to what makes Finnish teacher education so effective and in Chapter 4 researchers of the University of Johannesburg disseminate their findings on establishing a teaching school based on Finnish insights in Johannesburg Chapter 3 highlights the challenges faced in open and distance learning teacher education contexts Several of the chapters disseminate research findings on alternative interventions to classic WIL namely where safe spaces or laboratories are created for student teachers to learn and grow professionally These could either be simulations such as software programmes and avatars in the intervention described in Chapter 2 student excursions as the findings in chapters 5 7 and 10 portray or alternative approaches to WIL e g Chapters 11 and 12 The book is devoted to scholarship in the field of pre service teacher education The target audience is scholars working in the fields of pre service teacher education work integrated learning and self directed learning The book makes a unique contribution in terms of firstly its extensive use of Cultural Historical Activity Theory as a research lens and secondly in drawing on various theoretical frameworks Both quantitative and qualitative research informed the findings of the book

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