



A level Statistics Paper 1 **MARK SCHEME**

Question 1

Question Number	Scheme	Marks
(a)	70 – 80 group - width 0.5 (cm) 1.5 cm ² is 10 customers <u>or</u> 3.75cm ² is 25 customers <u>or</u> 0.5c = 3.75 <u>or</u> $\frac{2.5}{1}$ 70 – 80 group - height 7.5 (cm)	B1 M1 A1 (3)
(b)	Median = $(70) + \frac{13.5}{25} \times 10$ allow $(n + 1) = (70) + \frac{14}{25} \times 10$ = 75.4 (or if using $(n + 1)$ allow 75.6)	M1 A1 (2)
(c)	$\left[\text{Mean} = \frac{6460}{85} \right] = 76$ $\sigma = \sqrt{\frac{529400}{85} - 76^2}$ = 21.2658..... (σ = 21.3920)	B1 M1 A1 (3)
	Notes	
(a)	B1 for 0.5 M1 for one of the given statements <u>or</u> any method where “their width” × “their height” = 3.75 Correct height scores M1A1 independent of width so B0M1A1 is possible.	
(b)	M1 for a correct fraction: $+\frac{k}{25} \times 10$ where $k = 13.5$ or 14 for $(n + 1)$ case. NB may work down so look out for $(80) - \frac{11.5}{25} \times 10$ etc Beware: $69.5 + \frac{13.5}{25} \times 11 = 75.44$ (but M0)	
(c)	M1 for a correct expression with square root, ft their mean A1 for awrt 21.3 or, if clearly using $\hat{\sigma}$ allow awrt 21.4. Must be evaluated...no words.	

May 2013 Statistics Mark Scheme

Yan Bai



May 2013 Statistics Mark Scheme:

The 1989 FAO Standard Specifications for the Marking and Identification of Fishing Vessels: Use and options for review Davies, S., Hjort, A. and Markides, M.,2022-07-19 The marking of fishing vessels is important for their identification to support the global efforts to promote sustainable fisheries for safety at sea and to combat illegal unreported and unregulated fishing For this reason the FAO Standard Specifications for the Marking and Identification of Fishing Vessels were developed and endorsed by COFI in 1989 as a voluntary instrument providing a standardized system for the identification of fishing vessels operating or likely to operate in waters of another State Global developments have had an impact on the usefulness of the FAO Standard Specifications specifically the increased use of the International Maritime Organization number as a unique vessel identifier and the establishment of the FAO s Global Record This document provides background to the development of the FAO Standard Specifications and the results of a study to assess the level of their adoption at the national regional and international levels It also describes progress in the areas of vessel identity vessel tracking different vessel types and catch traceability and how these impact the usefulness of the FAO Standard Specifications Finally the document proposes a review and update of the FAO Standard Specifications **Minerals Yearbook, 2013, Area Reports: International, Asia and the Pacific** U. S. Government Printing Office,2017-02-15 This edition of the U S Geological Survey USGS Minerals Yearbook discusses the performance of the worldwide minerals and materials industries during year 2013 and provides background information to assist in interpreting that performance These annual reviews are designed to provide timely statistical data on mineral commodities in various countries This volume covers data from Asia and the Pacific Each report includes sections on government policies and programs environmental issues trade and production data industry structure and ownership commodity sector developments infrastructure and a summary outlook Audience Government employees and contractors as well as businesses and employees all working in mineral related trades especially with interests in statistics about mineral commodities overseas will find this resource invaluable Check out our Minerals Metals publications here <https://bookstore.gpo.gov/catalog/science/technology/minerals/metals> Other print volumes in the Minerals Yearbook series are available here <https://bookstore.gpo.gov/catalog/science/technology/minerals/metals/minerals/yearbook> Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,1911 Contains the 4th session of the 28th Parliament through the session of the Parliament Punishing the Other Anna Eriksson,2015-08-20 Punishing the Other draws on the work of Zygmunt Bauman to discuss contemporary discourses and practices of punishment and criminalization Bringing together some of the most exciting international scholars both established and emerging this book engages with Bauman s thesis of the social production of immorality in the context of criminalization and social control and addresses processes of othering through a range of contemporary case studies situated in various cultural political and social contexts Topics covered include the increasing bureaucratization of the business of punishment with the

corresponding loss of moral and ethical reflection in the public sphere punitive discourses around border control and immigration and exclusionary discourses and their consequences concerning terrorists and other socially and culturally defined outsiders Engaging with national and global issues that are more topical now than ever before this book is essential reading for academics and students of involved in the study of the sociology of punishment punishment and modern society the criminal justice system philosophy and punishment and comparative criminology and penology **China's Urban**

Revolution Austin Williams,2017-10-19 By 2025 China will have built fifteen new supercities each with 25 million inhabitants It will have created 250 Eco cities as well clean green car free people friendly high tech urban centres From the edge of an impending eco catastrophe we are arguably witnessing history s greatest environmental turnaround an urban experiment that may provide valuable lessons for cities worldwide Whether or not we choose to believe the hype there is little doubt that this is an experiment that needs unpicking understanding and learning from Austin Williams The Architectural Review s China correspondent explores the progress and perils of China s vast eco city program describing the complexities which emerge in the race to balance the environment with industrialisation quality with quantity and the liberty of the individual with the authority of the Chinese state Lifting the lid on the economic and social realities of the Chinese blueprint for eco modernisation Williams tells the story of China s rise and reveals the pragmatic political and economic motives that lurk behind the successes and failures of its eco cities Will these new kinds of urban developments be good humane healthy places Can China find a third way in which humanity nature economic growth and sustainability are reconciled And what lessons can we learn for our own vision of the urban future This is a timely and readable account which explores a range of themes environmental political cultural and architectural to show how the eco city program sheds fascinating light on contemporary Chinese society and provides a lens through which to view the politics of sustainability closer to home **EU Law on Indications of Geographical Origin** Vadim Mantrov,2014-07-03 The present book examines both theoretical and practical aspects of the law on indications of geographical origin IGOs within the framework of European Union EU law pursuing four distinct yet mutually related aims First it discusses theoretical issues of the law on IGOs including its historical foundations terminology principles of regulation legal subjectivity protection models and loss of protection Second it covers the EU law on IGOs from a systematic point of view Particularly the systematic review of the EU law on IGOs includes an in depth analysis of and commentary on the relevant and applicable regulations Third it examines current legislative initiatives and further development options for the EU law on IGOs Finally it reveals the interrelation of the EU law on one hand and the national laws of EU Member States on the other with regard to IGOs focusing on harmonized and non harmonized areas of law **Joe Quinn Among the Rowdies** Rochelle Llewelyn Nicholls,2014-10-01 A gentleman when the game was hard bitten played by rough and ready lads out to win whatever the cost Australia had few sporting heroes in the years preceding its federation in 1901 But before its 20th century Olympic trailblazers and Depression era

icons such as Phar Lap and Don Bradman came an Australian sporting pioneer who was celebrated on the most glamorous stage in the world American major league baseball Joe Quinn s story has long been lost in the land of his birth This tale gallops from the deprivation of famine ravaged Ireland through colonial Australia to the raucous ballfields of 19th century America with their unruly players and owners brawls and adulation and backroom betrayals Through 17 seasons in the major leagues Undertaker Joe Quinn earned his place among the colorful characters who pioneered the modern game of baseball as much for his ability to stand apart from their bad behavior as for his steadfastness on the field Meet Australia s first professional baseball player and manager whose willingness to have a go in the grand Australian tradition will live long in the minds of sports fans on both sides of the Pacific

Austerity Bites 10 Years On Mary O'Hara,2024-09-17 Austerity has proven deadly Over the last decade the damage caused by austerity measures in the UK has had a long lasting and profound effect on many lives The first edition of Austerity Bites offered on the ground reportage of one of the most significantly regressive economic strategies of any post war government Over a year Mary O Hara toured the UK to gauge the immediate impact and expectations of people affected and found many clinging to the hope that austerity cuts would not last long as the damage became increasingly apparent Alas this was not how things unfolded Instead much of the Welfare State had its vital support systems systematically undermined The public sector including the NHS is now on its knees Schools are buckling under multiple structural and budgetary pressures Councils even big ones are going broke Homelessness is rampant While Brexit the pandemic and war have no doubt impacted the economic health of the country previous austerity cuts left the UK less prepared to weather such extraordinary events With new commentary Austerity Bites 10 Years On assesses on the true scale of the damage these policies have inflicted on the country s most vulnerable groups public institutions and on the wider society It reflects on where we have been where we are now and what needs to happen next to undo the damage and avoid the same mistakes again

Minerals Yearbook ,2013 [Performance and Improvement of Green Construction Projects](#) Bon-Gang Hwang,2018-06-08 Performance and Improvement of Green Construction Projects Management Strategies and Innovations expertly explains the specific characteristics and management approaches of green construction projects using in depth examples that compare presented tactics to conventional construction projects The book provides a holistic view on management strategies and innovations focusing on the assessment and improvement of green construction projects and how to manage performance with respect to cost scheduling quality safety risk productivity and leadership development Addresses performance improvement and project management in green construction projects covering cost scheduling safety quality risk productivity and leadership Clearly explains the obstacles challenges and barriers to implementing green construction projects Discusses special issues that are inherent in green construction projects from inception to delivery

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