

### Question 1



$r = -0.79$  since there is a strong negative correlation



$r = 0.08$  since there is no correlation



$r = 0.68$  since there is moderate positive correlation

### Question 2

(a) A histogram would be used since this is grouped, continuous data and the class widths vary considerably.

(c) There are 134 examiners. The median value would be the distance for the 67th examiner. 67th value is in

$f \text{ density} = f \div \text{class width}$

(b)

lower class boundary	upper class boundary	Distance (km)	Number of examiners	Class width	Frequency density
40.5	45.5	41-45	4	5	0.8
45.5	50.5	46-50	19	5	3.8
50.5	60.5	51-60	53	10	5.3
60.5	70.5	61-70	37	10	3.7
70.5	90.5	71-90	18	20	0.9
90.5	150.5	91-150	6	60	0.1

lower class boundary	upper class boundary	Distance (km)	Number of examiners	cumulative frequency
40.5	45.5	41-45	4	4
45.5	50.5	46-50	19	23
50.5	60.5	51-60	53	76
60.5	70.5	61-70	37	113
70.5	90.5	71-90	18	131
90.5	150.5	91-150	6	134

$Q_1$  &  $Q_2$  in here  
 $Q_3$  in here

$Q_1 = 33.5\text{th value}$   
Median = 67th value  
 $Q_3 = 100.5\text{th value}$

# June 13 Mark Scheme S1

**David Kirk**



## June 13 Mark Scheme S1:

**Proceedings of the 36th Annual ACM Symposium on the Theory of Computing** ,2004 **STOC '05** ACM Special Interest Group for Algorithms and Computation Theory,2005 **The Pall Mall Budget** ,1886 Advanced Information Systems Engineering Oscar Pastor,João Falcão e Cunha,2005-06 This book constitutes the refereed proceedings of the 17th International Conference on Advanced Information Systems Engineering CAiSE 2005 held in Porto Portugal in June 2005 The 39 revised full papers presented were carefully reviewed and selected from 282 submissions The papers are organized in topical sections on conceptual modeling metamodeling databases query processing process modeling and workflow systems requirements engineering model transformation knowledge management and verification Web services Web engineering software testing and software quality The Jewelers' Circular ,1920 **Proceedings** ,2001 **Index of Specifications and Standards** ,2002 Parliamentary Papers Great Britain. Parliament. House of Commons,1906 Environmental Fate and Effects of Pulp and Paper Mark R. Servos,2020-02-03 In recent years there have been emerging concerns regarding the fate and effects of pulp and paper mill effluents on the environment Countries throughout the world are focusing attention on the implementation of regulatory and monitoring programs In response industry has begun to implement a variety of process and treatment technologies designed to minimize or eliminate the potential impacts Environmental Fate and Effects of Pulp and Paper Mill Effluents explores the most active and critical current research and experimentation from around the world This comprehensive overview examines the identity and origin of chemicals in pulp mill effluents environmental fate of chemicals from pulp and paper mills bioaccumulation of substances from pulp mills to fish and wildlife field and laboratory studies of biochemical and whole organism responses associated with pulp and paper effluents integrated monitoring and future research and policy directions of this rapidly evolving field Written by prominent scientists from around the world with contributions from industry government and academia this important new book provides a balanced global perspective of the recent scientific findings and the challenges being faced in the immediate future **Sessional Papers** Great Britain. Parliament. House of Commons,1906 **Cumulated Index Medicus** ,1996 *Advances in Biometrics* Massimo Tistarelli,Mark S. Nixon,2009-06-04 rd It is a pleasure and an honour both to organize ICB 2009 the 3 IAPR IEEE International Conference on Biometrics This will be held 2 5 June in Alghero Italy hosted by the Computer Vision Laboratory University of Sassari The conference series is the premier forum for presenting research in biometrics and its allied technologies the generation of new ideas new approaches new techniques and new evaluations The ICB series originated in 2006 from joining two highly reputed conferences Audio and Video Based Personal Authentication AVBPA and the International Conference on Biometric Authentication ICBA Previous conferences were held in Hong Kong and in Korea This is the first time the ICB conference has been held in Europe and by Programme Committee arrangements and by the quality of the papers ICB 2009 will continue to maintain the high standards set by its predecessors In total we received around 250 papers for review Of

these 36 were selected for oral presentation and 93 for poster presentation These papers are accompanied by the invited speakers Heinrich H B lthoff Max Planck Institute for Biological Cybernetics T b gen Germany on What Can Machine Vision Learn from Human Perception daoki Furui Department of Computer Science Tokyo Institute of Technology on 40 Years of Progress in Automatic Speaker Recognition Technology and Jean Christophe Fondeur SAGEM Security and Morpho USA on Large Scale Deployment of Biom rics and Border Control      Bibliography of Agriculture with Subject Index ,1993

Popular Science ,1945-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Nuclear Science Abstracts** ,1974-03      *Advances in Multimedia Modeling* Kuo-Tien Lee,Wen-Hsiang Tsai,Hong-Yuan Mark Liao,Tsuan Chen,Jun-Wei Hsieh,Chien-Cheng Tseng,2011-01-10 This two volume proceedings constitutes the refereed papers of the 17th International Multimedia Modeling Conference MMM 2011 held in Taipei Taiwan in January 2011 The 51 revised regular papers 25 special session papers 21 poster session papers and 3 demo session papers were carefully reviewed and selected from 450 submissions The papers are organized in topical sections on audio image video processing coding and compression media content browsing and retrieval multi camera multi view and 3D systems multimedia indexing and mining multimedia content analysis multimedia signal processing and communications and multimedia applications The special session papers deal with content analysis for human centered multimedia applications large scale rich media data management multimedia understanding for consumer electronics image object recognition and compression and interactive image and video search      Applied Mechanics Reviews ,1975      **Official Gazette of the United States Patent Office** United States. Patent Office,1970  
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web equilibrium at what point is a reversible reaction completed why most of the reactions that we have studied this year have been forward reactions once the reactant has changed into the product it stays that way we can assume that eventually the reaction will finish when the limiting reactant runs out