

2  
Section A  
[48 marks]

*Answer all the questions in this section. All questions carry equal marks.*

1. Two independent events K and L are such that  $p(K) = x$ ,  $p(L) = (x + \frac{1}{3})$  and  $p(K \cap L) = \frac{3}{20}$ . Find the value of  $x$ .

2. Seven participants in an art contest were ranked by two judges as follows:

Participant	A	B	C	D	E	F	G
1st Judge	3	4	1	6	5	7	2
2nd Judge	3	6	2	5	7	4	1

- (a) Calculate, correct to three decimal places, the Spearman's rank correlation coefficient for the scores of the judges.  
(b) Comment on your results.

3.  $F_1$  (3 N,  $030^\circ$ ),  $F_2$  (4 N,  $090^\circ$ ),  $F_3$  (6 N,  $135^\circ$ ) and  $F_4$  (7 N,  $240^\circ$ ) act on a particle. Find, correct to two decimal places, the magnitude of the resultant force.

4. A uniform pole, PQ, 30 m long and of mass 4 kg is carried by a boy at P and a man 8 m away from Q. Find the distance from P where a mass of 20 kg should be attached so that the man's support is twice that of the boy, if the system is in equilibrium.  
[Take  $g = 10 \text{ ms}^{-2}$ ]

5. Solve:  $3x^3 + 5 - 2x^{-3} = 0$ .

6. A point P divides the straight line joining X (1, -2) and Y (5, 3) internally in a ratio 2 : 3. Find the:  
(a) coordinates of P;  
(b) equation of the straight line that passes through N (3, -5) and P.

7. (a) Find the sum of the series:  $32 + 8 + 2 + \dots$

(b) Simplify:  $\frac{1 - \sqrt{2}}{\sqrt{5} - \sqrt{3}} - \frac{1 + \sqrt{2}}{\sqrt{5} + \sqrt{3}}$ .

8. Without using Mathematical tables or calculator, find, in surd form (radicals), the value of  $\tan 22.5^\circ$ .

# Maths Ptrial 2014

**Robert R. Redfield**



## Maths Ptrial 2014:

**Theory and Practice of Lesson Study in Mathematics** Rongjin Huang,Akihiko Takahashi,João Pedro da Ponte,2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4 0 license at link [springer com](https://www.springer.com) Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at TheUniversity of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U S *Approximate Number System and Mathematics* Jingguang Li,Xinlin Zhou,Marcus Lindskog,2019-11-25 Humans process quantity information without the aid of language or symbols to guide a variety of everyday life decisions The cognitive system that supports this intuitive skill is often referred to as the approximate number system ANS It has been argued that the ANS serves as the foundation of the formal symbolic number system mathematics Abundant empirical evidence is supportive of this view acuity of the ANS is positively correlated with symbolic math performance training of the ANS may cause improvements in symbolic math performance and the ANS and symbolic number processing may share a common neural underpinning However recently

several theories and empirical data cast doubt on the role of the ANS in symbolic math processing This e book aims to advance our understanding of the underlying mechanisms of the overlap between the ANS and mathematics *Individual Differences in Arithmetical Development* Ann Dowker,Bert De Smedt,Annemie Desoete,2020-01-03 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Processing Symbolic Numerical Information and its Implications for Mathematics Learning Ricardo Moura,Julia Bahnmueller,Vitor Geraldi Haase,Júlia Beatriz Lopes-Silva,Korbinian Moeller,2022-06-21 *The Condition of Education 2016* Education Department,2016-12-05 The Condition of Education 2016 summarizes important developments and trends in education using the latest available data The report presents 42 indicators on the status and condition of education The indicators represent a consensus of professional judgment on the most significant national measures of the condition and progress of education for which accurate data are available In addition 3 spotlight indicators are featured that describe selected issues of current policy interest **Abstracts of Papers Presented to the American Mathematical Society**

American Mathematical Society,1999 *Journal for Research in Mathematics Education* ,2015 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2012 *The Rose Annual* ,1972 Includes report of the Council Constitution Summary of receipts and payments of the National Rose Society **History of the Theory of Numbers ...** Leonard Eugene Dickson,1919 *People of the State of Illinois V. Minnis* ,2016 *The Chemical Engineer* ,2008

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