

AUSTRALIAN MATHEMATICS COMPETITION

AN ACTIVITY OF THE AUSTRALIAN MATHEMATICS TRUST

THURSDAY 2 AUGUST 2012

NAME _____



INTERMEDIATE DIVISION COMPETITION PAPER

AUSTRALIAN SCHOOL YEARS 9 AND 10
TIME ALLOWED: 75 MINUTES

INSTRUCTIONS AND INFORMATION

GENERAL

1. Do not open the booklet until told to do so by your teacher.
2. NO calculators, slide rules, log tables, maths stencils, mobile phones or other calculating aids are permitted. Scribbling paper, graph paper, ruler and compasses are permitted, but are not essential.
3. Diagrams are NOT drawn to scale. They are intended only as aids.
4. There are 25 multiple-choice questions, each with 5 possible answers given and 5 questions that require a whole number answer between 0 and 999. The questions generally get harder as you work through the paper. There is no penalty for an incorrect response.
5. This is a competition not a test; do not expect to answer all questions. You are only competing against your own year in your own State or Region so different years doing the same paper are not compared.
6. Read the instructions on the answer sheet carefully. Ensure your name, school name and school year are entered. It is your responsibility to correctly code your answer sheet.
7. When your teacher gives the signal, begin working on the problems.

THE ANSWER SHEET

1. Use only lead pencil.
2. Record your answers on the reverse of the answer sheet (not on the question paper) by FULLY colouring the circle matching your answer.
3. Your answer sheet will be scanned. The optical scanner will attempt to read all markings even if they are in the wrong places, so please be careful not to doodle or write anything extra on the answer sheet. If you want to change an answer or remove any marks, use a plastic eraser and be sure to remove all marks and smudges.

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The AMT reserves the right to re-examine students before deciding whether to grant official status to their score.

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Attracting and Keeping the Best Teachers Anna Sullivan, Bruce Johnson, Michele Simons, 2019-08-26 This book challenges dominant thinking about early career teachers and their work. It offers an in depth and critical analysis of policies concerning the work of early career teachers and how they are supported during this critical period when they are highly vulnerable to leaving the profession. Moreover the book provides examples from actual practice that illustrate how to help early career teachers make a successful transition into the profession. These practices promote early career teachers development and help the profession as a whole to capitalize on the new knowledge and skills that these teachers bring to their classrooms and their students. The book is divided into two main parts. Part 1 deals with the difficult to define process of retaining early career teachers and its respective chapters consider this broad issue from an international perspective. They explore how policies and practices have an impact on what happens in schools and what it means to be a teacher and to teach. In turn Part 2 focuses on the need to reconsider the policies and practices that create the problem of early career teachers and offers alternative ways forward. Each chapter addresses a specific aspect of the early career teacher retention issue contributing to a greater understanding of how we can rethink the work of early career teachers so that they can more successfully transition into the profession.

Educational Psychology: Constructing Learning Dennis M McInerney, 2013-08-15 Educational Psychology Constructing Learning 6e sets the standard for educational psychology texts in Australia and New Zealand with its comprehensive authoritative and research based coverage of the subject. This edition includes completely updated content to reflect recent advances in the discipline including revised theory into practice features from 39 international developmental psychologists. The author has retained the constructivist approach that made previous editions so engaging and relevant to student teachers and content has been constructed around the new Australian Profession Standards for Teachers.

Apprenticeships Great Britain: Parliament: House of Commons: Business, Innovation and Skills Committee, 2012-11-06 Incorporating HC 1843 i to 1843 vi Session 2010 12 Additional written evidence is contained in Volume 3 available on the Committee website at www.parliament.uk/bis.

Teaching STEM in the Secondary School Frank Banks, David Barlex, 2020-12-29 This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding achievement and motivation. By reaching outside their own classroom teachers can collaborate across STEM subjects to enrich learning and help students relate school science technology and maths to the wider world. Packed with ideas and practical details for teachers of STEM subjects the new revised edition of this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students. Describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom laboratory and workshop can support and encourage all pupils to engage fully in STEM addresses the practicalities of

introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This new revised edition is essential reading for trainee and practising teachers those engaged in further professional development and all who wish to make the learning of science technology engineering and mathematics an interesting motivating and exciting experience for their students Exploring Gifted Education Jennifer L. Jolly, Jane M. Jarvis, 2018-01-29 Exploring Gifted Education focusses on the most fundamental and pressing topics in gifted education from across Australian and New Zealand contexts and gives particular attention to evidence based practices and research findings The wide variety of topics presented include identification of gifted learners creativity twice exceptional learners affective considerations teaching the gifted curriculum considerations programs and services STEM early childhood learners rural and remote contexts and parents of gifted learners Each chapter provides guiding questions and key ideas to help orient the reader and discussion questions synthesise the chapter s concepts at the conclusion The first book of its kind to synthesise research based findings in gifted education from across New Zealand and Australia it is an essential reference tool for researchers and a key text for courses in gifted education Practitioners and parents will also find the assembled research illuminating and informative in understanding and addressing the needs of gifted learners **XXX International Congress of Psychology: Abstracts** Michele Robert, 2017-10-03 The abstracts of the XXX International Congress of Psychology July 2012 Cape Town are published as a supplement to Volume 47 of the International Journal of Psychology The published volume includes the abstracts of the invited addresses symposia oral and poster presentations numbering over 5 000 separate contributions and creating an invaluable overview of the discipline of psychological science around the world today **Intermediate 1 Maths 2006-2010** Sqa, 2010-08 Official SQA Past Papers provide perfect exam preparation As well as delivering at least three years of actual past papers including the 2010 exam all papers are accompanied by examiner approved answers to show students how to write the best responses for the most marks All the Best from the Australian Mathematics Competition Josephine D. Edwards, Declan J. King, Peter J. O'halloran, 1986 **Problem Solving Via the AMC (Australian Mathematics Competition)** Warren Atkins, 1992 Past Papers and Solutions of the South Australian School Mathematics Competition , 1998 **More of All the Best from the Australian Mathematics Competition** Peter John Taylor, Graham Pollard, Peter Joseph O'Halloran, 1992 Past Papers and Solutions of the South Australian School Mathematics Competition , 2005 Intermediate 2, Units 1, 2 & 3 Scottish Qualifications Authority, 2007* Maths Int 2 U12apps Sqa Past Papers , 2007-09 **Australian Mathematics Competition for the Westpac awards** , 1988 Maths Int 1 U123 Sqa Past Papers , 2007-09 **1978 Australian Mathematics Competition for the Wales Awards** , 1978 **Australian Mathematics Competition for the Westpac awards** , 1985 *Australian Mathematics Competition for the Westpac awards* , 1984 *Australian Mathematics Competition for the Westpac awards* , 1986

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