

# International Kangaroo Mathematics Contest 2010

Benjamin Level: Class (5 & 6)

Max Time: 2 Hours

## 3-point problems

**Q1)** Knowing that  $\blacktriangle + \blacktriangle + 6 = \blacktriangle + \blacktriangle + \blacktriangle + \blacktriangle$ , which number is hidden by  $\blacktriangle$ ?

- A) 2      B) 3      C) 4      D) 6

**Q2)** The number 4 is next to two mirrors so it reflects twice as shown. When the same thing happens to number 5, what do we get instead for the question mark?



- A) 2      B) 2      C) 5      D) 5

**Q3)** Kalim goes directly from Zoo to School. He counts each flower on the way. Which of the following number can not be his result.

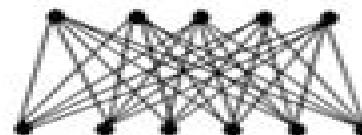


- A) 9      B) 10      C) 11      D) 12

**Q4)** A ladder has 21 stairs. Nadeem and Mahmood are counting stairs; one – from bottom to top, another – from top to bottom. They met on a stair that was called the 10<sup>th</sup> by Nadeem. What number will Mahmood give to this stair?

- A) 13      B) 11      C) 12      D) 10

**Q5)** Adil has connected all the upper points to all the lower points. How many lines Adil has drawn?

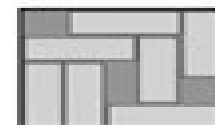


- A) 20      B) 25      C) 30      D) 35

**Q6)** A fly has 6 legs, while a spider has 8 legs. Together, 2 flies and 3 spiders have as many legs as 10 birds and

- A) 3 cats      B) 4 cats      C) 5 cats      D) 6 cats

**Q7)** There are seven bars in the box. It is possible to slide the bars in the box so there will be space for one more bar. At least how many bars have to be moved?



- A) 1      B) 2      C) 3      D) 4

# Math Kangaroo Papers

**Yiming Cao,Zsolt Lavicza ,Shuhua  
An,Lianchun Dong**



## Math Kangaroo Papers:

*Collected papers* Joseph Grinnell, 1922      *Catalogue of Scientific Papers*, 1894      *Catalogue of Scientific Papers* Royal Society (Great Britain), 1891      **Catalogue of Scientific Papers** Royal Society, 1891      *Collected papers* Gerrit Smith Miller, 1924      *Catalogue of Scientific Papers* Royal Society (Great Britain), 1884      *Catalogue of Scientific Papers: ser. 3 1874-1883* Royal Society (Great Britain), 1891      **Catalogue of Scientific Papers (1800-1900): ser. 3, 1874-1883** Royal Society (Great Britain), 1891      **Catalogue of Scientific Papers: Third series 1874-1883** Royal Society (Great Britain), 1891      *Catalogue of Scientific Papers (1800-1900): ser. 4, 1884-1900* Royal Society (Great Britain), 1923

**Catalogue of Scientific Papers, 1800-1900** Royal Society (Great Britain), 1891      **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,      **Awesome Math** Titu Andreescu, Kathy Cordeiro, Alina Andreescu, 2019-11-13 Help your students to think critically and creatively through team based problem solving instead of focusing on testing and outcomes Professionals throughout the education system are recognizing that standardized testing is holding students back Schools tend to view children as outcomes rather than as individuals who require guidance on thinking critically and creatively Awesome Math focuses on team based problem solving to teach discrete mathematics a subject essential for success in the STEM careers of the future Built on the increasingly popular growth mindset this timely book emphasizes a problem solving approach for developing the skills necessary to think critically creatively and collaboratively In its current form math education is a series of exercises straightforward problems with easily obtained answers Problem solving however involves multiple creative approaches to solving meaningful and interesting problems The authors co founders of the multi layered educational organization AwesomeMath have developed an innovative approach to teaching mathematics that will enable educators to Move their students beyond the calculus trap to study the areas of mathematics most of them will need in the modern world Show students how problem solving will help them achieve their educational and career goals and form lifelong communities of support and collaboration Encourage and reinforce curiosity critical thinking and creativity in their students Get students into the growth mindset coach math teams and make math fun again Create lesson plans built on problem based learning and identify and develop educational resources in their schools Awesome Math Teaching Mathematics with Problem Based Learning is a must have resource for general education teachers and math specialists in grades 6 to 12 and resource specialists special education teachers elementary educators and other primary education professionals      *Psychological Studies in the Teaching, Learning and Assessment of Mathematics* Yiming Cao, Zsolt Lavicza, Shuhua An, Lianchun Dong, 2024-05-31 There is no doubt that the onset of a new decade has brought high expectations of academic progress for scholars especially for researchers in mathematics education The International Group for the Psychology of Mathematics Education was born in 1976 which focused on the international exchange of knowledge in the psychology of mathematics education the promotion of interdisciplinary research with

psychologists mathematicians and mathematics teachers and the development of the psychological aspects of teaching and learning mathematics and its implications *Catalogue of Scientific Papers (1800-1900): Supplementary volume. 1800-1883* Royal Society (Great Britain),1921

**Engaging Young Students In Mathematics Through Competitions - World Perspectives And Practices: Volume Ii - Mathematics Competitions And How They Relate To Research, Teaching And Motivation** Robert Geretschlager,2020-04-15 The two volumes of Engaging Young Students in Mathematics through Competitions present a wide scope of aspects relating to mathematics competitions and their meaning in the world of mathematical research teaching and entertainment Volume II contains background information on connections between the mathematics of competitions and the organization of such competitions their interplay with research teaching and more It will be of interest to anyone involved with mathematics competitions at any level be they researchers competition participants teachers or theoretical educators The various chapters were written by the participants of the 8th Congress of the World Federation of National Mathematics Competitions in Austria in 2018

**Public Key Cryptography - PKC 2006** Moti Yung,Yevgeniy Dodis,Aggelos Kiayias,Tal Malkin,2006-04-14 Here are the refereed proceedings of the 9th International Conference on Theory and Practice in Public Key Cryptography PKC 2006 held in New York City in April 2006 The 34 revised full papers presented are organized in topical sections on cryptanalysis and protocol weaknesses distributed crypto computing encryption methods cryptographic hash and applications number theory algorithms pairing based cryptography cryptosystems design and analysis signature and identification authentication and key establishment multi party computation and PKI techniques

Special Papers ,1934 *Catalogue of Scientific Papers (1800-1900)* Royal Society (Great Britain),1965

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