

**The Mathematical Association of Victoria**  
**Trial Examination 2023**  
**GENERAL MATHEMATICS**  
**Trial Written Examination 2 - SOLUTIONS**

**Data Analysis**

**Question 1**

a. Negative skew

1M

The data is centred closer to the top of the data than the bottom and there is a tail in the data towards the lower end. This indicates a negative skew.

b. 30 - < 40 years

1M

The data in the histogram shows the percentage frequency. By definition, the value of  $Q_1$  is the 25<sup>th</sup> percentile. 7% of values are between 1 and 10 years, with another 6% between 10 and 20 years. Another 9% are between 20 and 30 years, with 12% between 30 and 40 years.

This means that a total of  $7 + 6 + 9 = 22\%$  are below 30 years and  $22 + 12 = 34\%$  are below 40 years. Therefore the 25<sup>th</sup> percentile is 30 years or above up to 40 years of age.

c. 9 400 000 passengers

1M

As can be seen from the histogram,  $7 + 6 + 9 + 12 = 34\%$  of passengers were less than 40 years of age.

$$\frac{34}{100} \times 27\,508\,900 = 9\,353\,026.$$

9 353 026 rounded to two significant figures is 9 400 000.

# General Maths Trial

**Didier Musso**



## General Maths Trial:

**Excel Preliminary General Mathematics** A. S. Kalra, 2000 A comprehensive study guide covering the complete Preliminary mathematics course Special features include a thorough and complete summary of each topic Outcomes provided at the beginning of each chapter and important definitions and formulae Complete and correct solutions provided for all questions Suitable for 2001 HSC

**Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives** Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research

*Report of the 1981 Field Trials in English and Mathematics--intermediate Division* Leslie D. McLean, Ontario Assessment Instrument Pool, Ontario. Ministry of Education, 1982

**Curricular Program Implementation in the Context of Randomized Field Trials** Gloria Isabel Miller, 2011 Abstract curricular program implementation in the context of randomized field trials Gloria Isabel Miller This study examined three cases of commercially available curricular program implementations to determine if a unified approach to measuring the level of implementation was possible proof of concept Further the study investigated whether the level of curriculum and implementation plan specificity made a difference to the strength of implementation achieved in classrooms and described the implementation evolution in different contexts The study sample consists of a total of 163 teachers in eight school districts across the United States In each case teachers were randomly assigned to using the curricular innovation or their currently used materials and processes The three cases HS Math NewScience and MathIntervention were purposely chosen to represent three different points of curricular and implementation specificity and two different subject areas math and science Each case features a commercially available program that also had opportunities for teachers to use electronic technology to enhance their learning or to engage their students The cases represent differing student grade levels The cases are different enough to provide a range that exercises the measurement techniques introduced in this study so results can begin to generalize across curricular programs and grades However the cases are similar enough in research design

instrumentation and data collection methods to make them comparable A key contribution of this investigation is the creation of a framework to measure the level of implementation the extent to which the teacher and students display the actions behaviors and interactions expected by using the innovation The unified conceptual framework arrived at by using an Activity Theory perspective together with the analytical methods employed provide a way to view the rich complex interaction of implementation as a system with the larger system of the school organization Data from the analysis revealed that variations in the level of implementation were no different regardless of the level of specificity A strong finding of this work is that implementation evolves slowly even when the curricular program is scripted and coaching support is provided to teachers The paper concludes with implications for policy and future research

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The Eton Calendar For... Eton College, 1906

**A Course of Study for Junior High School Mathematics** Mattie Bogue, 1922

*New York Supreme Court*, **The Encyclopedic Digest of Virginia and West Virginia Reports** Thomas Johnson Michie, 1922

*A Comparative Experimental Study of Two Ninth Grade Mathematical Textbooks with Reference to the Fundamental Operations* Raymond Randell Wallace, 1925

Dictionary of dates, and universal reference. [With] Joseph Haydn, 1889

**Haydn's Dictionary of Dates and Universal Information Relating to All Ages and Nations** Joseph Haydn, Benjamin Vincent, 1889

**The Northeastern Reporter**, 1891 Includes the decisions of the Supreme Courts of Massachusetts Ohio Indiana and Illinois and Court of Appeals of New York May July 1891 Mar Apr 1936 Appellate Court of Indiana Dec 1926 Feb 1927 Mar Apr 1936 Courts of Appeals of Ohio

*Effects of Some Trials to Improve Mathematics Teaching* Ingrid Holmberg, 1975

The Cambridge Review, 1896

*Directory of the Illinois Schools*, 1924

**Circular** Illinois. Office of the Superintendent of Public Instruction, 1921

*Century Edition of The American Digest*, 1898

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