ICAS

MATHEMATICS
ASSESSMENT FRAMEWORK

The questions assume concepts outlined in earlier papers. They increase in complexity throughout the paper and encourage the use of higher-order thinking skills.

PAPER E

CALCULATORS NOT PERMITTED

NUMBER & ARITHMETIC

Questions may require students to:

NUMBER

- identify and apply properties of prime, composite, square and triangular numbers
- convert between fractions, decimals and percentages

ARITHMETIC

- order integers
- solve problems involving order of operations including decimals and fractions
- add and subtract related fractions
- find fractions of whole numbers
- solve percentage problems such as discounts

ALGEBRA & PATTERNS

PATTERNS

- continue a pattern of related fractions

PRE-ALGEBRA

- complete equivalent number sentences involving order of operations

ALGEBRA

not tested at this level

MEASURES & UNITS

MEASURES

- convert metric units of area and volume

MEASUREMENT

- calculate areas and perimeters of composite shapes including triangles
- interpret timetables

SPACE & GEOMETRY

SPACE

- apply combinations of transformations to an image
- use the cartesian plane to represent points

GEOMETRY

- apply angle properties including complementary, supplementary, vertically opposite angles and angles at a point
- solve problems involving the angle sum of a triangle

STATISTICS & PROBABILITY

PROBABILITY

- represent probabilities as decimals and percentages
- compare experimental and expected frequencies

STATISTICS

- interpret and compare double column graphs
- interpret sector graphs

LEARN MORE

ICAS Paper to Year Level Conversion Table www.eaa.unsw.edu.au/icas/paper-to-year-level-equivalent-table.asp

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