



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 D



### NUMBER & ARITHMETIC

### ALGEBRA & PATTERNS

### MEASURES & UNITS

### SPACE & GEOMETRY

### STATISTICS & PROBABILITY

Questions may require students to:

#### NUMBER

- round numbers
- compare and order fractions and decimals and locate them on the number line

#### ARITHMETIC

- use factors and multiples to solve problems
- solve problems involving long multiplication and division with remainders
- solve problems involving fractions, mixed numerals and whole numbers
- estimate products

#### PATTERNS

- continue and describe patterns involving fractions, decimals and whole numbers

#### PRE-ALGEBRA

- complete equivalent number sentences involving all four operations

#### ALGEBRA

not tested at this level

#### MEASURES

- convert metric units of length

#### UNITS

- choose and use appropriate metric units

#### MEASUREMENT

- calculate areas and perimeters of rectangles
- convert 24-hour time

#### SPACE

- connect 3-D objects with 2-D views and nets
- use grid reference and directional language
- identify line and rotational symmetry

#### SHAPE

#### GEOMETRY

- measure and compare angles
- solve problems involving parallel and perpendicular lines

#### PROBABILITY

- list sample space
- represent probabilities as fractions
- recognise probabilities lie between 0 and 1

#### STATISTICS

- interpret and compare column graphs, dot plots and tables

## LEARN MORE

ICAS Paper to Year Level Conversion Table [www.eaa.unsw.edu.au/icas/paper-to-year-level-equivalent-table.asp](http://www.eaa.unsw.edu.au/icas/paper-to-year-level-equivalent-table.asp)