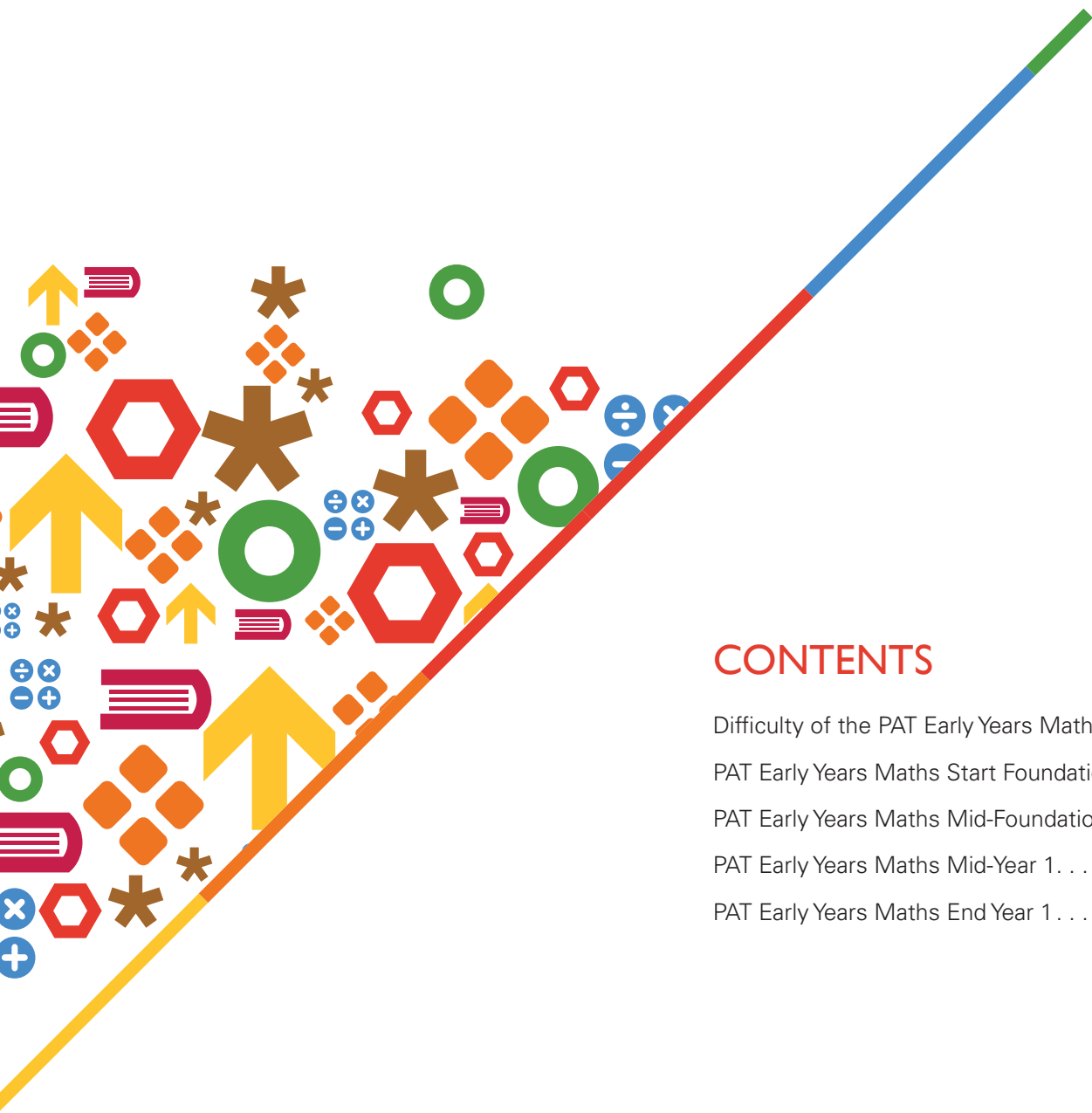




PAT Early Years Maths

Test and item difficulty



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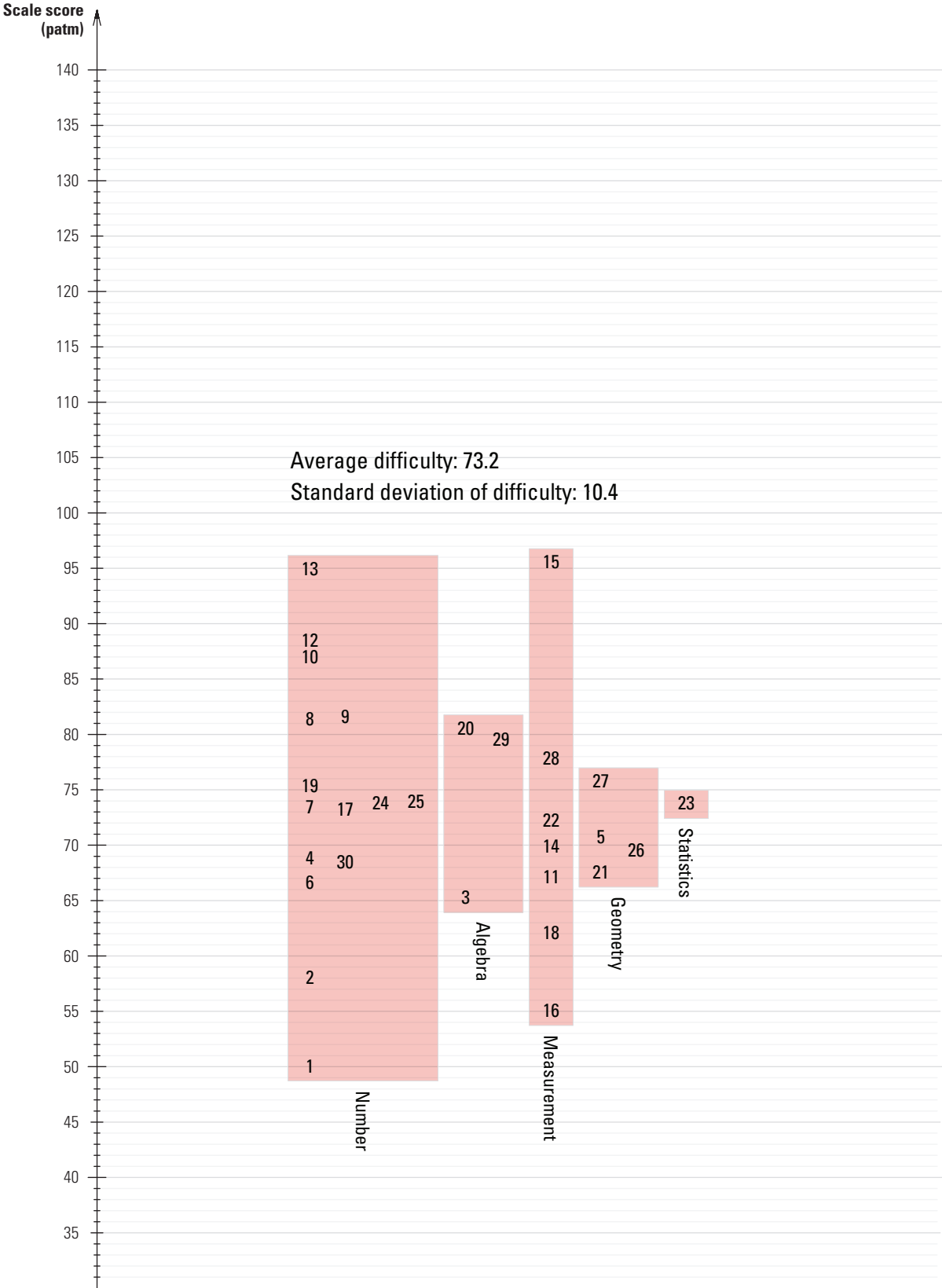
Difficulty of the PAT Early Years Maths tests

Using Rasch measurement, the PAT Maths measurement scale was constructed, on which student achievement and item difficulty can be displayed. It is possible to report the mean difficulty of the items in each of the PAT Early Years Maths tests in scale score (patm) units. These mean item difficulties – or test difficulties – are shown together with their standard deviations in the table below.

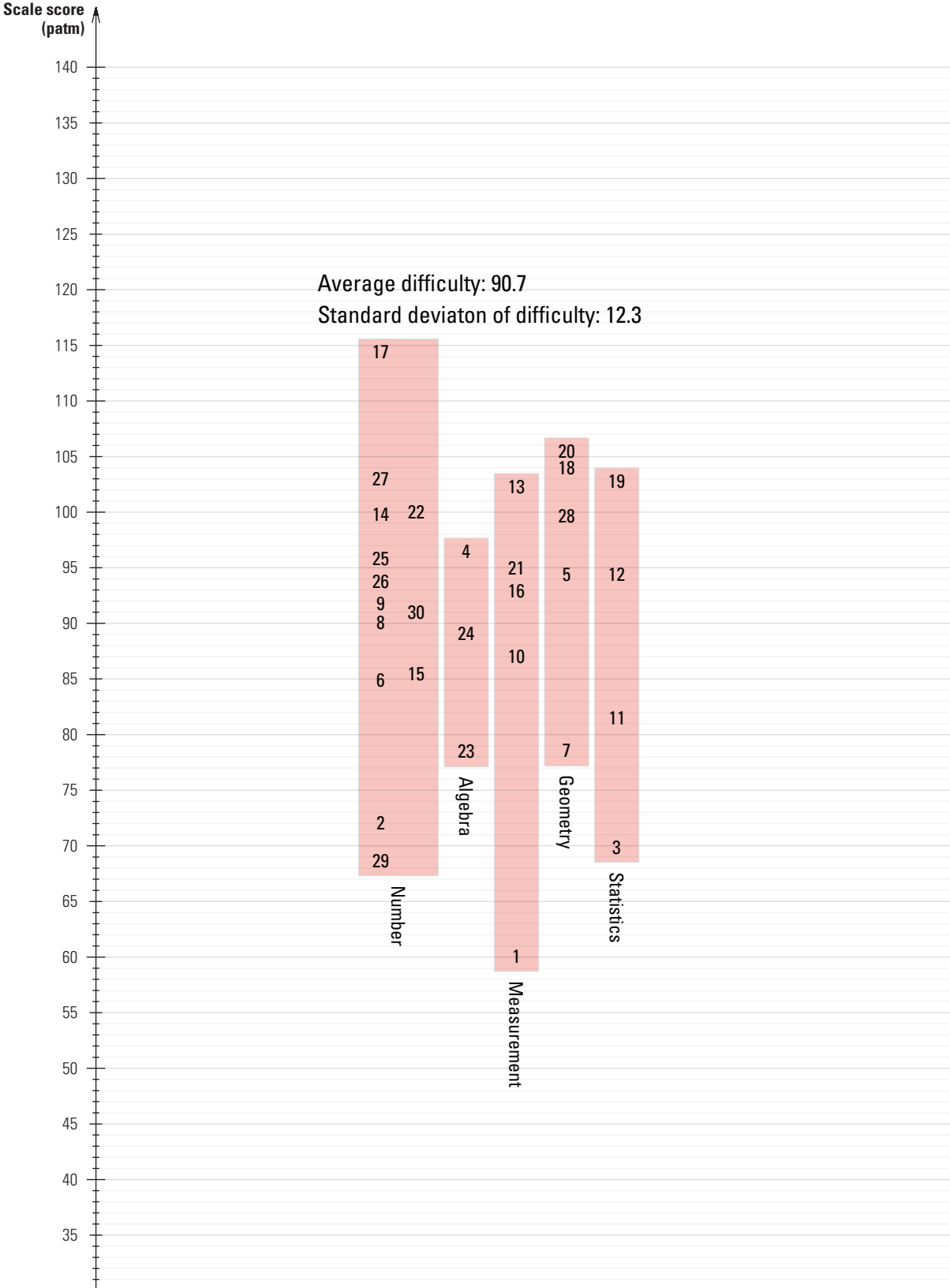
PAT Early Years Maths	No. of items	Mean item difficulty (patm)	Standard deviation (patm)
Start Foundation	30	73.2	10.4
Mid-Foundation	30	90.7	12.3
Mid-Year 1	30	96.9	12.5
End Year 1	30	101.5	8.5

The locations of the PAT Early Years Maths items on the measurement scale are shown on the following pages. Items have been placed in shaded blocks according to the strand to which they belong. Each block illustrates the span of difficulty for a strand. The item numbers written in the block identify the items belonging to the strand.

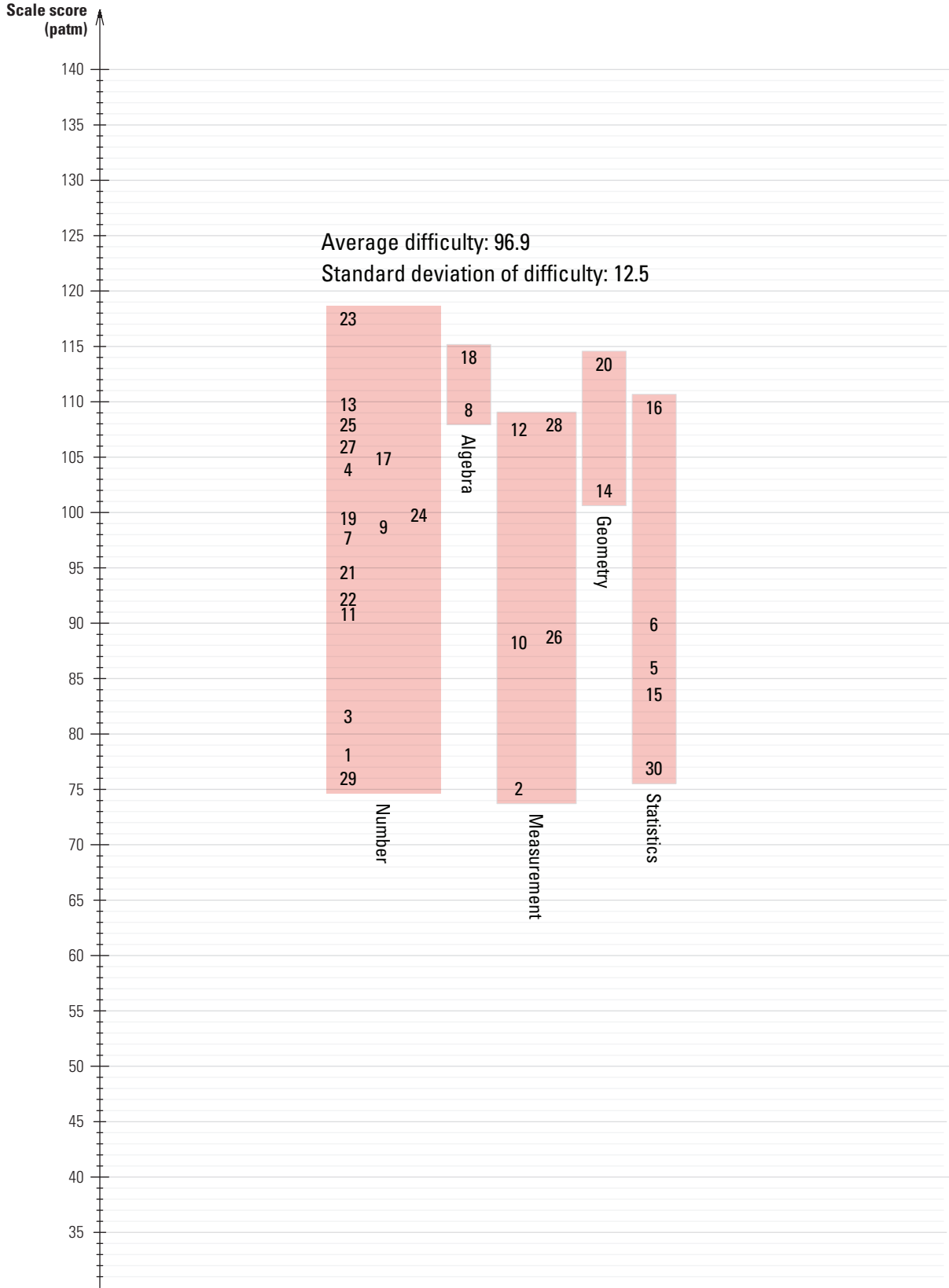
PAT Early Years Maths Start Foundation



PAT Early Years Maths Mid-Foundation



PAT Early Years Maths Mid-Year I



PAT Early Years Maths End Year 1

