

## NILE TUITION ACADEMY

EXCELLENCE IN 11+ PREPARATION

## Mathematics — Mark Scheme

Sutton SET style · Practice Paper 14 · Tutor / parent copy · 58 questions · 1 mark each

Award **1 mark** per correct answer; no negative marking. Maximum **58 marks**. The SET maths is KS2 content applied to less familiar, multi-step problems, so watch **how** the child works, not just the total. This diagnostic samples the **full KS2 range** — number, fractions, decimals, percentages, ratio, algebra, sequences, measures, geometry, position, statistics and data — with most questions deliberately multi-step.

| Q  | Topic / focus        | Answer | Correct answer |
|----|----------------------|--------|----------------|
| 1  | Place Value & Number | E      | 4,550          |
| 2  | Place Value & Number | E      | 9/10           |
| 3  | Place Value & Number | D      | 10             |
| 4  | Number Properties    | B      | 20             |
| 5  | Number Properties    | D      | 60 minutes     |
| 6  | Number Properties    | D      | 1 cm           |
| 7  | Fractions            | A      | 6              |
| 8  | Fractions            | B      | 6              |
| 9  | Fractions            | D      | 5/12           |
| 10 | Fractions            | C      | 5              |
| 11 | Fractions            | B      | 1/5            |
| 12 | Fractions            | A      | 5/8            |
| 13 | Fractions            | A      | 13 3/4         |
| 14 | Decimals             | C      | 7.2            |
| 15 | Decimals             | B      | 4,200 ml       |
| 16 | Percentages          | C      | £300           |
| 17 | Percentages          | E      | £120           |
| 18 | Percentages          | C      | 75%            |
| 19 | Ratio & Proportion   | E      | £36            |
| 20 | Ratio & Proportion   | B      | 10             |
| 21 | Ratio & Proportion   | B      | £6             |
| 22 | Algebra & Equations  | D      | 7              |
| 23 | Algebra & Equations  | A      | 4              |
| 24 | Algebra & Equations  | D      | 5              |
| 25 | Sequences & Patterns | A      | the 15th       |
| 26 | Sequences & Patterns | D      | 44             |

| Q  | Topic / focus                        | Answer | Correct answer     |
|----|--------------------------------------|--------|--------------------|
| 27 | Money & Real-World Problems          | E      | 5p                 |
| 28 | Money & Real-World Problems          | A      | £27                |
| 29 | Money & Real-World Problems          | B      | £6.60              |
| 30 | Measurement & Estimation             | A      | 12                 |
| 31 | Measurement & Estimation             | C      | 100 ml             |
| 32 | Speed, Distance & Time               | A      | 80 km/h            |
| 33 | Speed, Distance & Time               | C      | 84 km/h            |
| 34 | Speed, Distance & Time               | A      | 16:20              |
| 35 | Angles & Shape Properties            | A      | 72°                |
| 36 | Angles & Shape Properties            | E      | 130°               |
| 37 | Geometry — Area / Perimeter / Volume | B      | 32 cm <sup>2</sup> |
| 38 | Geometry — Area / Perimeter / Volume | C      | 40 cm              |
| 39 | Geometry — Area / Perimeter / Volume | D      | 33 m <sup>2</sup>  |
| 40 | Geometry — Area / Perimeter / Volume | C      | 36                 |
| 41 | Geometry — Area / Perimeter / Volume | A      | 14 litres          |
| 42 | Data Interpretation                  | B      | 100                |
| 43 | Data Interpretation                  | A      | 26                 |
| 44 | Data Interpretation                  | E      | 35                 |
| 45 | Coordinates & Graphs                 | B      | (8, 6)             |
| 46 | Coordinates & Graphs                 | D      | (-7, 2)            |
| 47 | Statistics                           | E      | 22                 |
| 48 | Statistics                           | C      | 14                 |
| 49 | Statistics                           | E      | 14.5               |
| 50 | Word Problems & Logic                | B      | 13                 |
| 51 | Word Problems & Logic                | D      | 4                  |
| 52 | Powers & Indices                     | B      | 33                 |
| 53 | Combinatorics & Counting             | D      | 32                 |
| 54 | Order of Operations                  | E      | 23                 |
| 55 | Roman Numerals                       | C      | 74                 |
| 56 | Symmetry & Shape Properties          | C      | 6                  |
| 57 | Position & Direction                 | E      | North-East         |
| 58 | Negative Numbers                     | C      | 21°C               |

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END OF MARK SCHEME

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