| Name: |  |  |  | Class: | Year: | $\stackrel{\Gamma}{3}$ | $\stackrel{N}{\underset{\sim}{3}}$ | $\begin{aligned} & \frac{1}{0} \\ & \dot{n} \end{aligned}$ | $\stackrel{N}{\overline{2}}$ | -E$\sim$$\sim$ | $N$$E$$E$$\sim$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start score: |  | Target Score: | End Sc |  |  |  |  |  |  |  |  |
| $>$ | 1. Read, write, order and compare numbers up to 10000000 and determine the value of each digit. Round any whole number to a required degree of accuracy. |  |  |  |  |  |  |  |  |  |  |
|  | 2. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above. |  |  |  |  |  |  |  |  |  |  |
|  | 3. Multiply and divide numbers up to 4 digits by a 2-digit whole number using the formal written methods and interpret remainders as whole number remainders, fractions, or by rounding. |  |  |  |  |  |  |  |  |  |  |
|  | 4. Identify common factors, common multiples and prime numbers. |  |  |  |  |  |  |  |  |  |  |
|  | 5. Use their knowledge of the order of operations to carry out calculations involving the four operations. |  |  |  |  |  |  |  |  |  |  |
|  | 6. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |  |  |  |  |  |  |  |  |  |  |
|  | 7. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. |  |  |  |  |  |  |  |  |  |  |
|  | 8. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. |  |  |  |  |  |  |  |  |  |  |
|  | 9. Multiply simple proper fractions and simplify the answer (e.g. $1 / 4 \times 1 / 2=1 / 8$ ). Divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=1 / 6$ ). |  |  |  |  |  |  |  |  |  |  |
|  | 10. Identify the value of each digit to three decimal places and multiply and divide numbers by 10 , 100 and 1000 where the answers are up to three decimal places. |  |  |  |  |  |  |  |  |  |  |
|  | 11. Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. |  |  |  |  |  |  |  |  |  |  |
|  | 12. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Q } \\ & \infty \\ & \propto \end{aligned}$ | 13. Solve problems involving the calculation of percentages (e.g. of measures) such as $15 \%$ of 360 and the use of percentages for comparison. |  |  |  |  |  |  |  |  |  |  |
|  | 14. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. |  |  |  |  |  |  |  |  |  |  |
|  | 15. Express missing number problems algebraically. Use simple formulae expressed in words. |  |  |  |  |  |  |  |  |  |  |
|  | 16. Generate and describe linear number sequences. |  |  |  |  |  |  |  |  |  |  |
|  | 17. Find pairs of numbers that satisfy number sentences involving two unknowns. Enumerate all possibilities of combinations of two variables. |  |  |  |  |  |  |  |  |  |  |
|  | 18. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Convert between miles and km. |  |  |  |  |  |  |  |  |  |  |
|  | 19. Use, read, write \& convert between standard units of measure, converting length, mass, volume \& time from smaller to larger units, and vice versa, using decimal notation to up to 3 dec places. |  |  |  |  |  |  |  |  |  |  |
|  | 20. Recognise that shapes with the same areas can have different perimeters and vice versa. |  |  |  |  |  |  |  |  |  |  |
|  | 21. Calculate the area of parallelograms and triangles. Recognise when it is possible to use formulae for area and volume of shapes. |  |  |  |  |  |  |  |  |  |  |
|  | 22. Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\mathrm{cm}^{2}$ ) and cubic metres $\left(\mathrm{m}^{3}\right)$, and extending to other units. |  |  |  |  |  |  |  |  |  |  |
|  | 23. Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. |  |  |  |  |  |  |  |  |  |  |
|  | 24. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. |  |  |  |  |  |  |  |  |  |  |
|  | 25. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. |  |  |  |  |  |  |  |  |  |  |
|  | 26. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \circ \\ & \infty \\ & \propto \end{aligned}$ | 27. Describe positions on the full coordinate grid (all four quadrants). |  |  |  |  |  |  |  |  |  |  |
|  | 28. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |  |  |  |  |  |  |  |  |  |  |
| $\frac{\sqrt{6}}{\boxed{6}}$ | 29. Interpret and construct pie charts and line graphs and use these to solve problems. |  |  |  |  |  |  |  |  |  |  |
|  | 30. Calculate and interpret the mean as an average. |  |  |  |  |  |  |  |  |  |  |
| 1-8: St 6 emerging |  | 9-16: St 6 developing | 17-24: St 6 securing |  | 0: St 7 ready |  |  |  |  |  |  |

