Mark scheme for Set A: Paper 2 (Non-calculator)

Q	Mark	Answers	Further information and tips
1	1	26 874.1	**Number, place value, approximation and estimation** **Tip:** The decimal point is the most important part of a decimal number. It is exactly to the right of the units position. Write place value headings above each number using the value of 7 as your starting point.
	1	1.37185 Do not allow any marks for more than one decimal point within a number.	
2	1	441 cm³	**Measures** **Tip:** To find the volume of a cuboid, you multiply the length, height and width together. In this question we know all the measurements. So $7 \times 7 = 49$ then $49 \times 9 = 441\,cm^3$
3	1	$38 + 39 + 40 + 41 + 42 = 200$	**Multiplication and division** **Tip:** First divide 200 by 5 to give 40. This is the middle number of the five numbered tickets. Work forwards and backwards from 40. This then makes five consecutive numbers.
4	2	False One fifth is not *exactly* half way between one quarter and one sixth. For **2 marks** an explanation must be given which can demonstrate a worked example showing that $\frac{1}{5}$ is not half way between $\frac{1}{4}$ and $\frac{1}{6}$ such as the following: $\frac{1}{4}$ of 60 = 15 $\frac{1}{6}$ of 60 = 10 $\frac{1}{5}$ of 60 = 12 12 is not halfway between 15 and 10 but $12\frac{1}{2}$ is. Award **1 mark** for answers saying that $\frac{1}{5}$ is *approximately* half way if this is demonstrated with an explanation or diagram. **Do not award** any marks for showing the decimal equivalents without any explanation, such as: $\frac{1}{4} = 0.25$ $\frac{1}{5} = 0.2$ $\frac{1}{6} = 0.16667$	**Fractions** **Tip:** Merely stating true or false is not enough to get 1 mark as you are being asked to evidence your thinking and show your understanding. For example, to be awarded 2 marks you may show evidence of your understanding of equivalent fractions: $\frac{1}{6}$ is equivalent to $\frac{2}{12}$ or $\frac{4}{24}$ $\frac{1}{4}$ is equivalent to $\frac{3}{12}$ or $\frac{6}{24}$ $\frac{5}{24}$ is exactly halfway between $\frac{1}{4}$ and $\frac{1}{6}$ $\frac{5}{24}$ is not equivalent to $\frac{1}{5}$ because $\frac{5}{25}$ is the same as $\frac{1}{5}$ Therefore $\frac{1}{5}$ is not exactly halfway between $\frac{1}{4}$ and $\frac{1}{6}$.