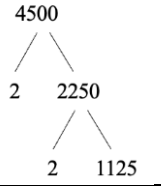
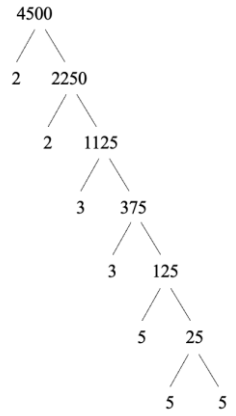
International GCSE Maths

Values in quotation marks must come from a correct method previously seen unless clearly stated otherwise.

Q	Working	Answer	Mark	Notes
1	eg $2 \times 2250 = 2 \times 225 \times 10$ **or** $2 \times 2250 = 2 \times 2 \times 1125$ **or** $2 \times 2250 = 2 \times 5 \times 450$ **or** $100 \times 45 = 10 \times 10 \times 45$ **or** $100 \times 45 = 2^2 \times 5^2 \times 45$ **or** $9 \times 500 = 9 \times 5 \times 100$ **or** $9 \times 500 = 9 \times 50 \times 10$ eg 2 | 4500 2 | 2250 | 1125 eg  		3	M1 for finding prime factors or factors after at least 2 stages of factorisation seen with 0 incorrect stages eg $2 \times 2250 = 2 \times 225 \times 10$ **or** for finding at least 2 prime factors after at least 3 stages in factorisation with no more than 1 incorrect stage eg 45×10 (incorrect) $= 9 \times 5 \times 5 \times 2$ Each stage gives 2 factors – may be in a factor tree or a table or listed (see LHS for examples of the amount of work needed for the award of this mark)
	eg $2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 5$ eg 2 | 4500 2 | 2250 3 | 1125 3 | 375 5 | 125 5 | 25 5 | 5 | (1) eg  			M1 dep on M1 for prime factors 2, 2, 3, 3, 5, 5, 5 with no others (ignore 1s) **OR** for getting to factors with a product of 4500 with at most one factor remaining that has not been fully factorised. This remaining factor must be the product of exactly two prime factors or a power of a single prime; allow use of index form eg 4, 3, 3, 5, 5, 5 or 2, 2, 9, 5, 5, 5 or 2, 3, 6, 5, 5, 5 or $4, 3^2, 5^3$ or $2^2, 9, 5^3$ or 2, 3, 3, 5, 5, 10 or 2, 2, 3, 3, 125 or $2, 2, 3, 5^2, 15$ Can be in any form, eg listed, multiplied, added May be seen in a factor tree or ladder
	Working required	$2^2 \times 3^2 \times 5^3$		A1 dep on M1, may be in any order and allow $2^2 \cdot 3^2 \cdot 5^3$
				Total 3 marks