Question	Working	Answer	Mark	Notes
21*	$3x \times 2x \times y = 1014$ oe or $6x^2y = 1014$ oe or $x^2y = 169$ oe		3	M1 for an equation for volume in terms of x and y
	$2 \times 3x \times y + 2 \times 2x \times y + 2 \times 3x \times 2x$ oe or $2 \times (3xy + 2xy + 6x^2)$ oe or $6xy + 4xy + 12x^2$ oe or $10xy + 12x^2$ oe			M1 (indep) for a correct expression for the surface area NB May not explicitly see the surface area expression in terms of y eg $2 \times 3x \times \frac{169}{x^2} + 2 \times 2x \times \frac{169}{x^2} + 2 \times 3x \times 2x$ oe May be fully substituted using $y = \frac{169}{x^2}$ oe
	Using $y = \frac{1014}{6x^2}\left(= \frac{169}{x^2}\right)$ in formula for surface area to obtain correct expression eg (SA =) $2 \times 5x \times \frac{169}{x^2} + 2 \times 6x^2 = 12x^2 + \frac{1690}{x}$ or equating their surface area equations eg $10xy + 12x^2 = 12x^2 + \frac{1690}{x}$ leading to $x^2y = 169$ oe	Shown		A1 dep on M2 For completing the 'show that' by clearly showing the stages that lead to the given expression for the surface area.
	Working required			**Total 3 marks**