18		x^2 oe **or** $x(12 - 3x)$ oe			M1 for finding an expression for the area of **one** face
		$x^2 + x^2 + 48x - 12x^2$ $(= 48x - 10x^2)$			M1 for a complete expression for A (**6** sides) with brackets expanded
		'48 – 20x' = 0	'−10'[(x – '2.4')^2 – '2.4'^{2}] oe		M1 for differentiating a correct expression for A (allow 1 error) **and** equating to zero **or** completing the square
		(x = 2.4) 48 × '2.4' – 10 × '2.4'^{2}	'−10' × − '2.4'^{2} or '−10' × − '5.76'		M1 ft if previous M1 awarded for isolating x and substituting into A **or** finding max value of A from completing the square
			57.6	5	A1 accept 58 from correct working
					Total 5 marks