Question	Working	Answer	Mark	Notes
9	eg $7x + 7y = 105$ – $7x - 5y = 3$ $5x + 5y = 75$ + $7x - 5y = 3$ $7(15 - y) - 5y = 3$ **or** $7x - 5(15 - x) = 3$ oe		3	M1 Correct method to eliminate x or y: coefficients of x or y the same **and** correct operation to eliminate selected variable (condone any one arithmetic error in multiplication) **or** writing x or y in terms of the other variable and correctly substituting
	"6.5" + y = 15 **or** x + "8.5" = 15 **or** 7 × "6.5" – 5y = 3 **or** $7x$ – 5 × "8.5" = 3			M1 dep Correct method to find second variable using their value from a correct method to find first variable or for repeating above method to find second variable
		$x = 6.5$, $y = 8.5$		A1oe dep on first M1
				Total 3 marks

10	(a)	$\frac{2^3}{2^7}$ **or** $2^3 \times 2^{-7}$ **or** $\frac{1}{2^4}$ **or** $\frac{1}{16}$ **and** $16 = 2^4$		2	M1
			-4		A1 Accept 2^{-4}
	(b)	$13^{-24} \times 13^5$		2	M1 for 13^{-24} or for $k = -6 \times 4 + 5$
			-19		A1 Accept 13^{-19}
					Total 4 marks

11	$V = \frac{4}{3} \times \pi \times 1.5^3$ (= 14.1(37)… or $\frac{9}{2}\pi$)		3	M1 Correct expression for volume.
	$D = \frac{109.6}{\frac{4}{3}\pi \times 1.5^3}$ oe			M1 dep
		7.75		A1 7.75 – 7.78
				Total 3 marks