15	$\pi \times 2.5^2 \times 15$ (= 93.75π = 294.5243...)		5	M1	for using the formula for volume of cylinder
	$21.5 = \frac{m}{"294.5243"}$			M1	for using $d = \frac{m}{v}$ with *their* intended volume *v*
	(*m* =) 21.5 × '294.5243...' (= 6332.272692)			M1	for rearranging for $m = d \times v$
	'6332.27269' ÷ 1000 × 5 (=31.661…) or '6332.27269' ÷ 6 ÷ 1000 (= 1.055…) or '6332.27269'× 5 **and** 30 × 1000 (=30 000) or 30 ÷ ('6332.27269' ÷ 1000) (= 4.7376…)			M1	for a correct calculation that would enable a conclusion to be made based on mass
		No and correct comparable figure(s)		A1	for No oe and (31.6 to 31.7 **or** 1.05 to 1.06 **or** 4.70 to 4.74) seen
					Total 5 marks

Alternative Mark Scheme for Q15					
15	$\pi \times 2.5^2 \times 15$ (= 93.75π = 294.5243...)		5	M1	for using the formula for volume of cylinder
	$21.5 = \frac{30\,000}{v}$ or $21.5 = \frac{30\,000 \div 5}{v}$			M1	for using $d = \frac{m}{v}$ with given *d* and *m*
	(*v* =) $\frac{30\,000}{21.5}$ (=1395.34…) or (*v* =) $\frac{30\,000}{21.5 \times 5}$ (=279.069…)			M1	for rearranging for $v = \frac{m}{d}$ for either one nugget, or all five nuggets.
	"1395.34" **and** "294.52" × 5 (= 1472.62) or "279.06" **and** "294.52"			M1	for correct calculations that would enable a conclusion to be made based on volumes
		No and correct comparable figure(s)		A1	awrt 3sf
					Total 6 marks