3	(a)	54 ÷ 9 × 4 oe or $\frac{4}{9}\times 54$ oe		2	M1 Allow 0.44(44…) × 54 or $\frac{24}{54}$
		Correct answer scores full marks (unless from obvious incorrect working	24		A1
	(b)	$\frac{"24"+n}{54+n}=\frac{1}{2}$ or $\frac{30}{60}$ or 54 – "24" (= 30) and "30" – "24" or 2 × "30" – 54		2	M1 ft if "24" < 27 or $\frac{6}{60}$
		Correct answer scores full marks (unless from obvious incorrect working)	6		A1
					Total 4 marks

4	2 × 0.75 (= 1.5) oe or 2 × 0.75 × 2 (= 3) oe		5	M1 for area of rectangle
	π × (0.5 ÷ 2)^2 (= 0.1963) or $\frac{1}{2}\times\pi$ × (0.5 ÷ 2)^2 (= 0.09817)			M1 for area of circle **or** area of semicircle
	"1.5" – "0.09817" (= 1.4018…) or "3" – "0.1963" (= 2.8036…)			M1
	"1.4018" × 2 × 250 ÷ 4 (= 175.228…) or "2.8036" × 250 ÷ 4 (= 175.228…) or "1.4018" × 250 ÷ 4 (= 87.6…)			M1or for 87 – 88
	Correct answer scores full marks (unless from obvious incorrect working)	175		A1 Allow 175 – 176
				Total 5 marks