Question	Working	Answer	Mark	Notes
20	100 – 0.5 **or** 99.5 **or** 100 + 0.5 **or** 100.5 **or** 1.68 – 0.005 **or** 1.675 **or** 1.68 + 0.005 **or** 1.685 **or** 0.5 – 0.05 **or** 0.45 **or** 0.5 + 0.05 **or** 0.55		5	B2 for all 6 correct (B1 for 3, 4 or 5 correct) Allow $100.4\dot{9}$ or $100.4\bar{9}$ for 100.5 Allow $1.684\dot{9}$ or $1.684\bar{9}$ for 1.685 Allow $0.54\dot{9}$ or $0.54\bar{9}$ for 0.55 The value of each bound may be embedded in $v = 2\left(\frac{s}{t}\right) - u$
	$2\left(\frac{100.5}{1.675}\right) - 0.45$ **or** $2\left(\frac{100+0.5}{1.68-0.005}\right) - (0.5-0.05)$			M1 for correct substitution into the *UB* (=119.55) $v = 2\left(\frac{s}{t}\right) - u$ where $100 < s \leq 100.5$ $1.675 \leq t < 1.68$ $0.45 \leq u < 0.5$
	$2\left(\frac{99.5}{1.685}\right) - 0.55$ **or** $2\left(\frac{100-0.5}{1.68+0.005}\right) - (0.5+0.05)$			M1 for correct substitution into the *LB* (=117.55…) $v = 2\left(\frac{s}{t}\right) - u$ where $99.5 \leq s < 100$ $1.68 < t \leq 1.685$ $0.5 < u \leq 0.55$
	Working required	120		A1 dep on M2 120 **and** correct upper bound (119.55) **and** correct lower bound (117.55…) seen
				Total 5 marks