



	$\% \text{ error} = \frac{4.8 - (788 \times 0.006) \times 100\%}{788 \times 0.006}$ $= \frac{0.072}{4.728} \times 100\%$ $= 1.523\%$ <p style="text-align: right;"><b>2006Q4</b></p>	M1 A1 3m
9.	<p>Greatest possible error</p> $= \frac{64(3.15-3.05)}{2}$ $= \frac{201.6 - 195.2}{2}$ $= 3.2\text{cm}^2$ <p style="text-align: right;"><b>2007Q8</b></p>	M1 A1 2m
10.	$0.05 \times 6 = 0.3$ $\% \text{ error} = \frac{0.3}{50 \times 6} \times 100$ $= 0.1\%$ <p style="text-align: right;"><b>2008Q5</b></p>	M1 M1 A1 3m
11.	$\frac{(7.55 \times 5.25) - (7.45 \times 5.15)}{2}$ $\frac{0.635}{7.5 \times 5.2} \times 100\%$ $\left(\frac{0.05}{7.5} + \frac{0.05}{5.2}\right) \times 100$ $= 1.628\%$ <p style="text-align: right;"><b>2010Q1</b></p>	M1 M1 A1 3
12.	$\text{Max}_A = 4\pi(7.5)^2$ $4 \text{Max}_A = 4\pi(6.5)^2$ <p>Absolute error = <math>\frac{4\pi(7.5^2 - 6.5^2)}{2}</math></p> $\% \text{ Error} = \frac{28\pi}{4\pi \times 7^2} \times 100\%$ $= 14.29\%$ <p style="text-align: right;"><b>2011Q9</b></p>	M1 M1 M1 A1 4

13.	<p>Minimum possible area.</p> $= \frac{1}{2}(6.35 \times 3.45)$ $= 10.95375 \text{ cm}^2$ <p>Maximum possible area</p> $= \frac{1}{2} \times 6.45 \times 3.55$ $= 11.44875 \text{ cm}^2$ <p>Maximum absolute error in area</p> $= \frac{11.44875 - 10.95375}{2}$ $= 0.2475 \text{ cm}^2$ <p style="text-align: right;"><b>2012 Q11 P2</b></p>	M1 M1 A1 3
-----	---	---------------------

