9.	A jug has a volume of 500 cm <sup>3</sup> , measured to the nearest 10 cm <sup>3</sup> .						
	(a)	Write down the least and greatest possible values of the volume of the jug.					
		Least volume cm <sup>3</sup> Greatest volume cm <sup>3</sup> [2]					
	Water is poured from the jug into a tank of volume 15.5 litres measured to the nearest 0.1 litre.						
	(b)	Explain, showing all your calculations, why it is always possible to pour water from 30 full jugs into the tank without overflowing.					
		[5]					

19.	Blocks of wood are cut so that they have a mass of 10 kg measured to the nearest kg.						
	(a)	Write down the least and greatest possible values of the mass of a block of wood.					
		Least mass kg Greatest mass			kg [2]		
	(b)	(i)	Find the least and greatest possible values of the mass of wood in 100 blocks.				
			Least mass kg in 100 blocks	in 100 blocks	. kg		
		(ii)	Stanley wishes to be sure that he delivered find the least number of blocks Stanle least 1000kg of wood is delivered.	rs 1000 kg of wood to a customer.  ey needs to deliver in order to be sure that	at at		
			<u> </u>				
					[5]		

9.	The capacity of a jug is 250 ml, measured to the nearest 10 ml.					
	(a)	Write down the least and greatest value of the capacity of the jug.				
		Least capacity ml Greatest capacity ml [2]				
	(b)	The capacity of a bucket is 5·1 litres, measured correct to the nearest $\frac{1}{10}$ of a litre.				
		The jug is filled with water and then the water is poured into the bucket. This is done 20 times in all. Explain, showing all your calculations, why it is not always possible for the bucket to hold all this water.				
	***************************************					
		[5]				