9	(i)		25 N	B1 [1]	3.4	E		
9	(ii)			M1	3.3	E	eg moments about A – correct number of terms	
			$2(100) = 75x + (x + 0.5)(25)$	A1ft	1.1	C	Follow through their 25 only	
			$x = 1.875$	A1 [3]	1.1	C		
9	(iii)			M1	3.3	E	moments about D – correct number of terms – oe (leading to an equation in W)	
			$(x + 0.5 - 2)(100) = W(4 - 0.5 - x)$	A1ft	1.1	C	Follow through their x only	
			$W = 23.1\,\text{N}$	A1 [3]	1.1	A	Accept 23 or better	23.076923…

Question			Answer	Marks	AO		Guidance	
9	**(iv)**	**(a)**	Modelling the stone as a particle assumes that the weight of the stone block acts exactly at *B* therefore the block's dimensions (or the distribution of the mass of the block) have not been taken into consideration	**B1** **[1]**	**3.5b**	A	Accept 'uniform'	
9	**(iv)**	**(b)**	Modelling the plank as a rigid rod assumes that the plank remains in a straight line and does not bend	**B1** **[1]**	**3.5b**	A		