



0 3 3	The man raises his body a vertical distance of 0.63 m to go from stage 1 to stage 2			
	Calculate the work done by the man.			
	Use your answer to question 03.2			
	Use the equation:			
	work done = force × distance [2 marks]			
	Work done = J			
0 3.4	The man was not moving at stage 2			
	How much work is done by the man at stage 2? [1 mark]			
	Work done = J			
03.5	A woman uses the bar to do a pull up.			
	The woman has a mass of 62 kg			
	She accelerates at 11 m/s ²			
	Calculate the resultant force on the woman.			
	Use the equation:			
	force = mass × acceleration [2 marks]			
	Force =N			
	Turn over for the next question	8		



IB/M/Jun18/8464/P/2F

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Question	Answers	Extra information	Mark	AO / Spec. Ref.
03.1	equal to		1	AO1 6.5.4.2.3
03.2		an answer of 833 (N) or 830 (N) scores 2 marks		AO2 6.5.1.3
	weight = 85 × 9.8		1	
	weight = 833 (N)	allow weight = 830 (N)	1	
03.3		an answer that rounds to 525 (J) scores 2 marks		AO2 6.5.2
	work done = 833 × 0.63	allow their calculated value from question 03.2 × 0.63	1	
	work done = 525 (J)	allow an answer that is consistent with their calculated value from question 03.2	1	
03.4	work done = 0 (J)		1	AO2 6.5.2
03.5		an answer of 682 (N) or 680 (N) scores 2 marks		AO2 6.5.4.2.2
	force = 62 × 11		1	
	force = 682 (N)	allow force = 680 (N)	1	
Total			8]