Question Number	Answer	Mark
	N.B. Only penalise overaccuracy after use of g = 9.8 ONCE for the question Omission of g is an A error not an M error.	
2(a)	M(P): $4T_Q = 20g \times 3.5$	M1A1
	Other possible equations: $T_P + T_Q = 20g$ M(A): $0.5T_P + 4.5T_Q = 20g \times 4$ M(G): $3.5T_P = 0.5T_Q$ M(Q): $4T_P = 20g \times 0.5$ M(B): $5.5T_P + 1.5T_Q = 20g \times 2$ from which T_P would need to be eliminated to give an equation in T_Q only	
	$(T_Q =)$ 170 or 172 (N) isw	A1 (3)
2(b)	M(B): $1.5X = 20g \times 2$	M1A1
	$(X =)$ 260 or 261 isw	A1 (3)
	Other possible equations: $(\uparrow)$: $X = 20g + mg$ M(A): $4.5X = 6mg + (20g \times 4)$ M(G): $0.5X = 2mg$ M(P): $4X = 20g \times 3.5 + mg \times 5.5$ M(Q): $1.5mg = 20g \times 0.5$ from which m would need to be eliminated to give an equation in X or T_Q only	
		(6)
	Notes	
2(a)	M1: Complete method to obtain an equation in T_Q only	
	A1: Correct equation	
	A1: Accept 17.5g oe. A0 for 171.5	
2(b)	M1: Complete method to obtain an equation in X or T_Q only	
	A1: Correct equation	
	A1: Accept $\frac{80g}{3}$ oe	