1.	W= Ug
	= mah
	= mgh = 3× 9-81×0-15
	= 4·4145 J
4.	Dug - Ug,
a)	
	= mgh2 - mgh1
	$= (5 \times 10^{-3} \times 9.81 \times 20) - 0 (h_1 = 0)$
	= 0·981 J
(ه	$\Delta U_s = \Delta U_g$
	= 0.9813
0)	Us . 1 kz2
	k - 2Us 2 (0.981)
	$(8 \times 10^{-2})^2$
	306. 5625
5.	F= kx
	k = F
	= 8×9.81
	0.1
	= 78u · 8
Δ	Us = 1 kx2

> 1 ~ 784 8x (0.4)2					
= 62·78u J					\top
					\top
Dug = Dus	+				+-
= 62-784 J					+-
	+++-				
Olg = nigh = 62-784	\bot				
					\perp
h = 62 - 784					
lug					
- 62 · 18 4					
8 × 9 - 81					\top
- 0.8 m					\top
6. W= Fd	+++-				+-
= 41×2	+	41 N	4 kg		+-
= 82 J					
	\bot			f	\perp
Total Thermal Energy = Fs of					
2 µs mg d					
= 0.6 × 4×	9.81 × 2				
= 47.088					
Floor Total - Bu					
Floor Themal Energy = Total - BI					
2 47.088 -	90				
- 1088]					

W=	K-	EK	ernel									
k =	82	- 4:	. D S {	8								
W= k = =	34	912	J									