## Work Done

All answers to calculations should be to 2 significant figures.

istance, work done and force.
ox of 500N upwards to a height of 200cm.
10kJ of energy to move an object over a distance of 4.5 m
d travel if a force of 10kN is applied and the energy transferred to the object is 9500J
a. Sally has a mass of 45kg, calculate the work done in walking up the 4 steps on the staircase to the left. Assume that g = 10N/kg.
b. Sally now needs to carry a box when she walks up the stair case which has a mass of 7.5kg. Calculate the work done when Sally carries this box up the staircase.
ning or walking up the stairs. Help Sally to answer this question and explain your
he ground floor to a higher platform.
Each box has a mass of 25kg. Assume g = 10N/kg. Calculate the work done in lifting the box from the ground floor to the higher platform.

Copyright belongs to Mark Scates, copying is not allowed. Copyrighted material 1