$\Sigma F = ma$ Connected Particles   2
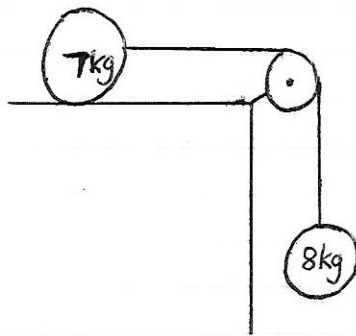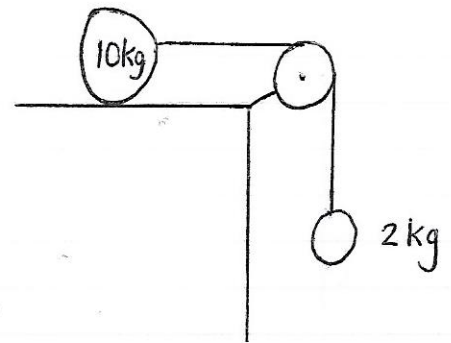
In each case the masses are at rest initially and then released. The pulley and table are smooth. The masses are particles, the string is light and inextensible.
Find for each

a) the acceleration
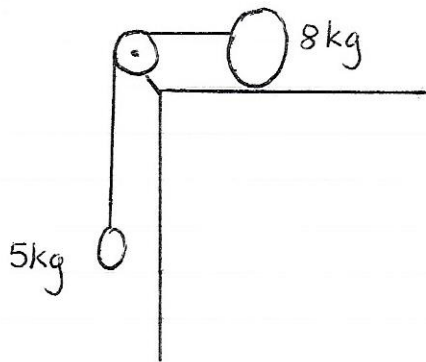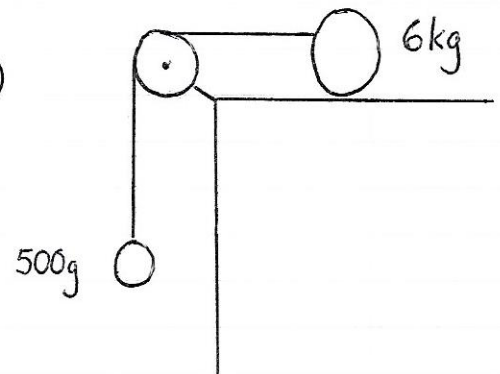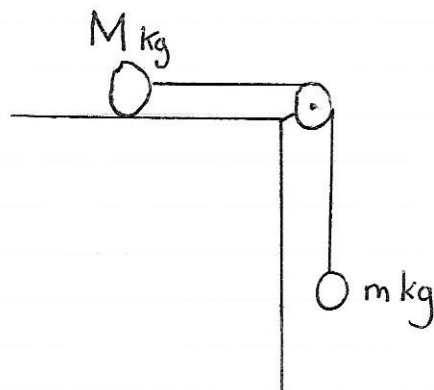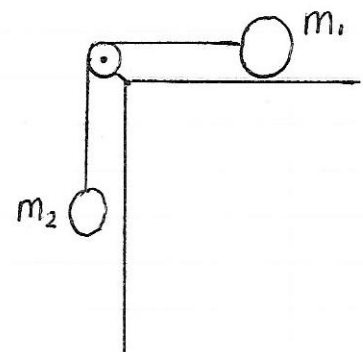b) the tension in the string
c) the force on the pulley.

1)

7kg
8kg

2)

10kg
2 kg

3)

8 kg
5kg

4)

6kg
500g

5)

M kg
m kg

Find answers in terms of
M and m

6)

m₁
m₂

Find answers in terms of
m₁ and m₂