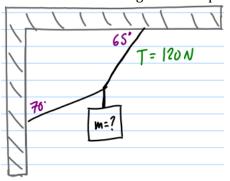
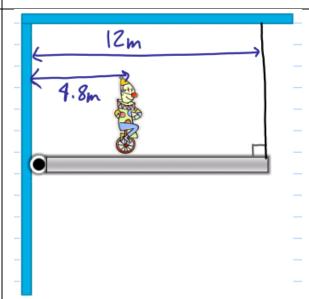
If the tension in the right hand rope is 120 N, determine the mass of the hanging object. (2 mark)



Mass:

2.



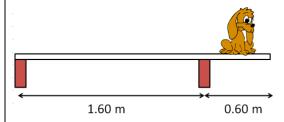
A 65kg clown rides along a 25kg beam. What is the tension in the rope at the end of the beam and the supporting force provided by the hinge? (4 mark)

Tension:____

Force by Hinge:_____

3. A uniform 2.20m long 4.0 kg board rests on two bricks as shown below

a) How far could a 6.0 kg dog walk past the right hand brick before the board starts to tip upwards? (2 mark)



distance past the right brick:_____

b) A that exact moment what are the magnitudes of the supporting forces provided by the bricks? (2 mark)

Right brick:____

Left brick:_____

