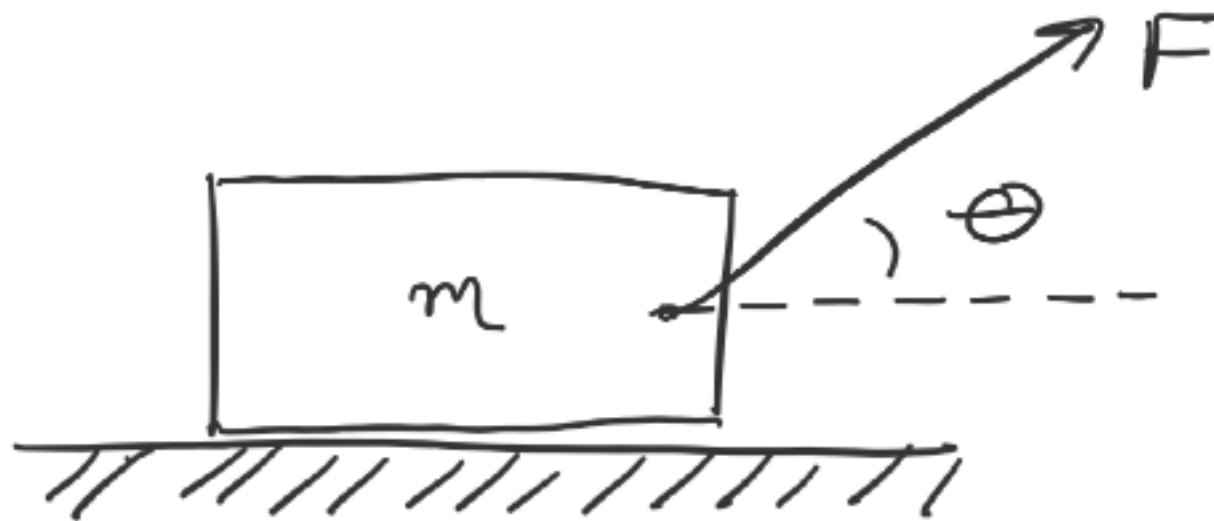# Problem Summary

Consider a box of mass **m = 25kg** being pulled by a rope. The force required to move it is given by:

$$F = \frac{\mu mg}{cos\theta + \mu sin\theta}$$

Let:

$\mu = 0.55$

$g = 9.81 m/s^2$