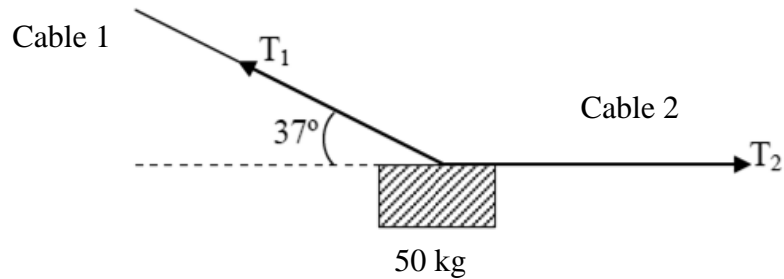


Year 12 Physics 2021 Worksheet 5- Mechanics

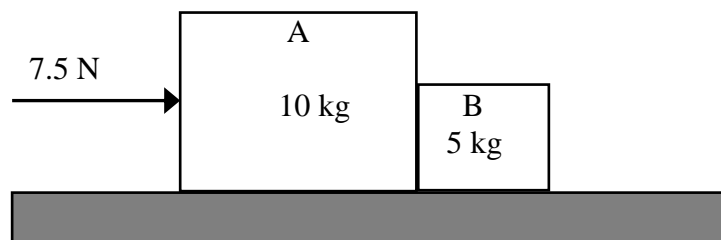
Write the answers in your Exercise Book.

1. A 50 kg hanging mass is held in **equilibrium** by two cables as shown in the diagram below.



Calculate

- (a) the weight of the hanging mass. **(1 mark)**
- (b) T_1 the tension in the cable 1. **(2 marks)**
- (c) T_2 the tension in the cable 2. **(2 marks)**
2. A force of 7.5 N is applied to two bodies as shown below on a frictionless surface.



Calculate

- (a) the acceleration produced. **(1 mark)**
- (b) the force applied to A by B. **(2 marks)**
- (c) the force applied to B by A. **(2 marks)**