

- 2 A cantilever is set up on a rough table using a rigid uniform metre rule of mass 0.11 kg , a 1.5 kg block and a 5.0 g mass as shown in Fig. 2.1.

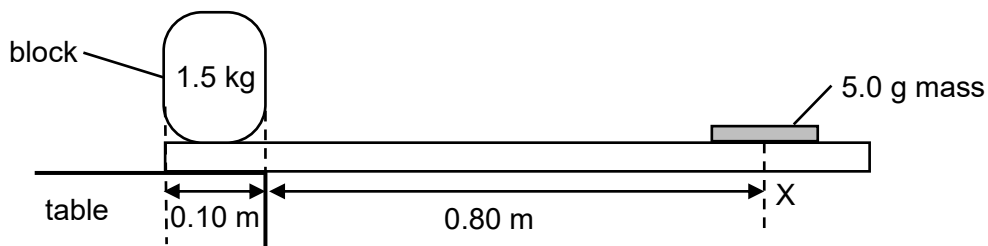
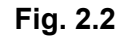


Fig. 2.1

- (a) Determine the maximum number of 5.0 g masses that can be stacked above point X such that the cantilever does not topple.

maximum number = [3]



State and explain how this modification will affect your answer in (a).

[3]