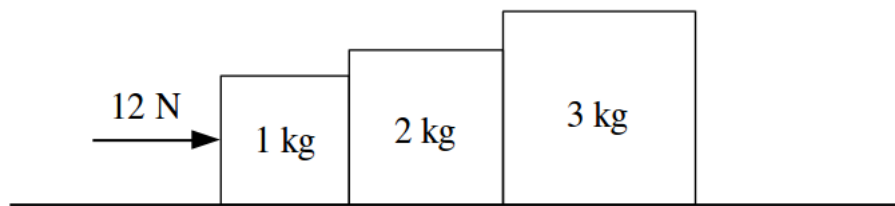


## Practice Problem Set 5

1. The minute hand of a clock is 7.50 cm long. Find the magnitude of the acceleration of its tip.

2. Blocks of 1.0, 2.0 and 3.0 kg are lined up on a frictionless table, as shown in the figure below, with a force of 12 N applied to the leftmost block. What is the magnitude of the force that the rightmost block exerts on the middle one?



3. A projectile has horizontal range  $R$  on level ground and reaches maximum height  $h$ . Find an expression for its initial speed in terms of  $R$ ,  $h$  and  $g = 9.8 \text{ m s}^{-2}$ .