

### PHYSICS 117 – EXTRA HOMEWORK SET

**E 13** The horizontal speed does not change, so the distance is velocity times the time, or 60 m. As for the height of the table,  $h = \frac{1}{2}at^2 = 80$  m.

**E 17** 800 revolutions in four minutes makes 200 rev/min or 3.33 rev/s.

**E 25** To balance the torques,  $m_r = m_l \left( \frac{r_l}{r_r} \right) = 100$  g.