In the Figure below, **box 1** (m_1 = 2 kg) rests on a table with friction ($\mu_k = 0.15 \; and \; \mu_3 = 0.3$) is connected by as ideal rope passed through a frictionless pulley to **box 2** (m_2 = 30 kg). It is release from rests, and immediately a force of 10 N acts on the **box 1** in the direction shown. After **box 2** has fallen 0.8 m find the **speed** of **box 1**.