Full Model with Friction

Create as <u>full & complete</u> a model as possible for the following situation (incorporate all of the tools we have learned in class so far and make sure your model is internally consistent).

A person pushes with a force of 120 N on the object on the left, which is in contact with the box on the right. The force is applied over 0.5 m.

$$120 \text{ N} \quad \boxed{\begin{array}{c} 40 \text{ kg} \\ \mu_k = 0.25 \end{array}} \boxed{60 \text{ kg} \quad \mu_k = 0.4}$$