

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Multi-Body Problem (Consolidation)

Two boxes have masses  $m_1 = 20$  kg and  $m_2 = 10$  kg and are sitting on a frictionless surface connected by a massless cord. If they are pulled with an applied force of  $F_A = 50$  N, calculate (a) their acceleration and (b) the tension in the cord connecting them.

