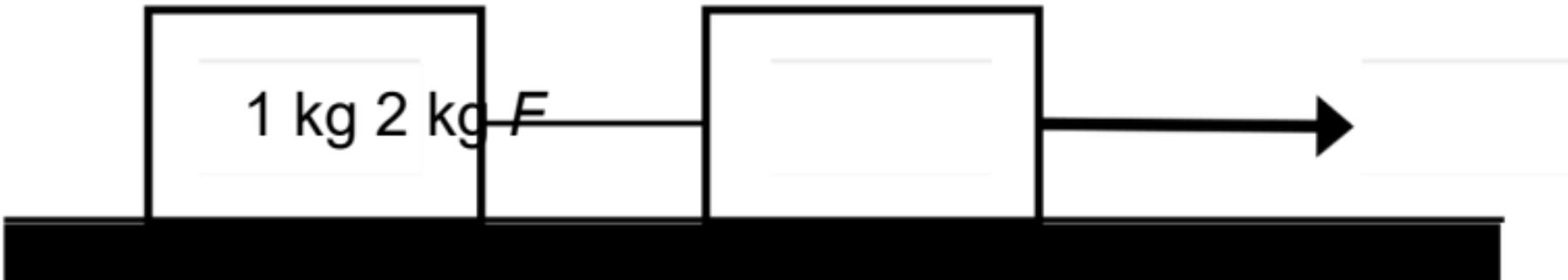


**5**

The frictionless system shown is accelerated by an applied force of magnitude  $F$ .



What is the tension in the string between the blocks?

**A**  $\frac{1}{3}F$

**B**  $\frac{1}{2}F$

**C**  $F$

**D**  $2F$