



What is friction as a force?
It is a force that always acts opposite to the intended motion.

No motion $1N$
 $F_f \leftarrow$ $\rightarrow 1N$
 F_a

No motion $5N$
 $F_f \leftarrow$ $\rightarrow 5N$
 F_a

$10N$
 $F_f \leftarrow$ $\rightarrow 11N$
 F_a

since the forces are unbalanced, the box accelerates.



