Slip Sliding Away

Summary:

1. The tension force is equal in size but opposite in direction of the friction force **IF** there is no change in velocity.
2. There is more friction force over a wood and brick surface than a table and brick surface. => The kind of sliding surface has an effect on the friction force.
3. The weight of the brick matters. More weight more friction force.
4. An additional test showed that it is actually the normal force that increases the friction force.
5. The surface area doesn't matter. => with more surface area the friction force was still the same.
6. Equation $|F_f|=\mu|F_N|$
    a. The force of friction depends on the coefficient of friction and the force normal
    b. The coefficient depends on the kinds of sliding surfaces, rough surfaces have a higher coefficient of friction
    c. The absolute value signs tell us that the equation **DOES NOT** tell us the direction of the forces.

Errors: measuring brick size, measuring force ± _____ N, pulling the brick at constant velocity.