Work and Kinetic Energy

1. Mom applies 8.66N of force horizontally to slide a 7.00kg turkey 0.30m across a level counter top. How much work does mom do?

2. Now mom applies 10N to push the turkey back to where it started, but this time, the force she applies is directed 30⁰ below horizontal, and the turkey slides 0.30 m horizontally. How much work does she do now?

3. A 12.0kg turkey runs at 5.00m/s. How much kinetic energy does the turkey have?

4. The turkey doubles its speed to 10.0m/s. Now what is its kinetic energy?

5. How much NET work was done on the turkey from #3 to #4?

6. True / False: Whenever work is done by a force on an object, its kinetic energy changes. If the statement is not true, correct it.