1. It takes energy for motion to occur.

2. Energy is the ability to do work or cause change. Motion is the action or process of moving or being moved. A force is a push or pull. Energy, motion, force, and work are all involved in a motorcycle race.

3. No because no matter how much force you exert, you don’t do any work if the heavy object does not move.

4. 35 x 7 = 245 35, 70, 105, 140, 175, 210, and 245. 245 joules was applied to an object .

5. I would need to ask how much time did the work take?

6. Energy transferred over time = power. Force applied to an object to change its position = work. Force moving an object over a distance = motion.

7. You will need power, work, motion, distance, and time.