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Solution : $W = F d \cos \theta = (20) (2) (\cos 0) = (20) (2) (1) = 40 \text{ Joule}$. Read : [Nonuniform circular motion - problems and solutions](#). 2. A force $F = 10 \text{ N}$ acting on a box 1 m along a horizontal surface. The force acts at a 30° angle as shown in figure below. Determine the work done by force F !

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$N = (0, |N|)$ $T_1 = (|T_1|, 0)$ above equation in components form: $(0, -m_1 g) + (0, |N|) + (|T_1|, 0) = (m_1 |a|, 0)$ x components equation. $0 + 0 + |T_1| = m_1 |a|$. 2) free body diagram of block m 2. Newton's second law, assuming m 2 accelerating downward and $|a|$ is the magnitude of the acceleration.

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Substituting the values in the formula, $= 600 \times 50 = 30000$ N Hence, force of the object is 30000 Newtons. Example 2: Let us consider the problem: Find the mass of an object with force 200 Newtons and acceleration as 10 m/s^2

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The way to solve a complex problem is to break it down into a series of simpler problems. Be careful not to lose sight of your goal among all the bits and pieces, however. Before beginning plot your course. In this case we'll start by finding the effective resistance of the entire circuit and the current from the battery.

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When it comes to work in physics, you're sure to see problems involving power, which is the amount of work being done in a certain amount of time. Here's the equation for power, P: W equals force along the direction of travel times distance, so you could write the equation for power this way: where [...]

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