POWER

- ➤ Power is the amount of work done per unit of time. The unit of power is Joule/second which is defined as one Watt.
- ➤ Formula used to calculate power is:

Solve the following problems:

1. A set of pulleys is used to lift a piano weighing 1 000 N. The piano is lifted 3.0 m in 60 seconds. How much power is used?

2. How much power is used if a force of 35N is used to push a box a distance of 10.0 m in 5.0 seconds?

3. What is the power of a kitchen blender if it can perform 3 750 J of work in 15 s?

4. How much work is done using a 500-watt microwave oven over 5.0 minutes?

5. How much work is done using a 60-watt light bulb for 1 hour?