WORKS AND POWER

Answer the following questions about work done!

Calculate the work done if a man pushes a prom 250 metres with a force of 80 Newtons

Calculate the work done if a crane lifts a Steel girder of weight 10,000 Newtons through a height of 35 metres

A bird catches a mouse of weight 2 Newtons and lifts it through a height of 160 cm to its nest.
Calculate the work done

Calculate the work done when a piano of weight 0.3 Kilo Newtons is lifted up through a height of 5 metres using a cargo elevator.

Calculate the Force needed to do 10,000,000 Joules of work on a car travelling through a distance of one kilometre

Calculate the vertical distance travelled by a helicopter of weight 10,000 Newtons when 500,000 Joules of work is done on it.

For each section of question 1, calculate the power assuming the following times were taken.

The man took 100 seconds
The crane took 50 seconds
The bird took 3 seconds
The cargo elevator took 1 minute
The car took half a minute