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EFFICIENCY PRACTICE

1. A lift is able to carry a load of 1800 kg at a velocity of 1.65 m/s [up]. Given that the motor driving the lift has an input power of **3**3 kW, calculate the efficiency of the lift.

2. 10 000 J of chemical energy is consumed by a crane to lift a 50.0kg box 18 m straight up. What is the crane's efficiency?

3.	A microwave rated at 800 W heats 0.25 L of water. If the water's temperature rises by 40 °C in 90 seconds, what is the microwave's oven efficiency?
4.	The efficiency of a 300 W heater is 85%. At what rate is the heat energy produced?