

Power

Power – the rate of doing work.

To find the rate of doing any quantity (how fast), take the quantity and divide it by time.

Therefore, power is the amount of work divided by time.

horsepower – a non-SI unit of power

$$1 \text{ hp} = 746 \text{ W}$$

ex.

If a 10 kg box is lifted up 2 m, how much power is exerted in Watts, kilowatts, and horsepower if it was lifted up in (a.) 2 s and (b.) 30 s?