Power

Power is the rate of energy transfer.

power =
$$\frac{\text{energy transferred}}{\text{time taken}} = \frac{\text{work done}}{\text{time taken}}$$

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$$P = \frac{\text{onergy transferred}}{\text{time taken}} = \frac{\text{work done}}{\text{time taken}}$$

Example: an Aussie pulls a tyre 150m along a beach with a force of 200N. It takes 40 seconds.

- a) how much work is done?
- b) what happens to all the energy transferred?
- c) what is the Aussie's power?
- d) a Brit pulls the tyre back with the same force in a time of 2 mins. Calculate her power.
- e) a Kiwi pulls it the same distance with the same force, and runs at an average speed of 2.5m/s. Calculate his power.