## **Power Calculations**

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1:16 PM

1. A car is going down a freeway at 40 m/s. It requires 200 N of force to maintain its speed. What is its power?

2. A person is walking up a flight of stairs at a constant velocity. The stairs are 4 m high. IF the mass is 60 kg and the time is 4 s, find the power in W and hp.

3. For a 5 hp motor, how much work can be done in 3 minutes?

4. A car with a mass of 1000 kg accelerates from 20 m/s to 40 m/s in 3 s. Find the power.

AKE