**Noteguide for Power - Videos 5B Name**



A person does 48 J of work in 6.0 s. What is their power output?

My 30. HP van could go 25 m/s top speed. What was the force resisting its motion?

1 horsepower = 745.7 Watts, 1 kW = 1000 Watts

Whiteboards:

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| 1. Joe Mama does 613 J of work in 2.13 seconds. What is his power output?  (288 W) | 2. Ima Wonder can put out 127 W of power. What time will it take her to do 671 J of work?  (5.28 s) |
| 3. What work does a 1.5 HP motor do in 1 minute? (P = 1.5x745.7 W)  (67,113 J) | 4. Bob N. Frappels slides a box with 43 N of force at a constant speed of 5.3 m/s. What is his power output?  (230 W) |
| 5. Frieda People can put out 430. W of power. With what speed can she push a car if it takes 152 N to make it move at a constant velocity?  (2.83 m/s) | |