

Physics Courseware

Physics I

Power

$$\text{Power} = \frac{\text{Work}}{\text{time}} \text{ or } \text{Power} = Fv \cos \angle_f$$

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

Problem 1.- Calculate the power delivered by a dog who pulls a sled a constant speed of 2.5 m/s. Consider the mass of the sled to be 45 kg and the coefficient of friction between sled and ice to be $\mu = 0.085$



Solution: We can use the equation $\text{Power} = Fv \cos \angle_f$

The problem gives $v=2.5$ m/s and the force can be easily calculated using the equation:

$$F_{\text{friction}} = \mu_k F_{\text{Normal}} = 0.085mg = 0.085 \times 45 \times 9.8 = 37.5 \text{ N}$$

The angle is zero, so the cosine is one, then:

$$\text{Power} = 37.5 \text{ N} \times 2.5 \text{ m/s} = 94.7 \text{ watts}$$

We can call this a DP (dog power) instead of its counterpart HP.

Problem 1a.- Calculate how many dogs you need to pull a loaded sled at constant speed of 1.5 m/s knowing that the mass of the sled plus its cargo is 450 kg and the coefficient of friction between sled and ice is $\mu = 0.085$

Consider that 1 DP (dog power) is 94 watts



Solution: We can use the equation $\text{Power} = Fv \cos \angle_f$

The problem gives $v=1.5$ m/s and the force can be easily calculated using the equation:

$$F_{\text{friction}} = \mu_k F_{\text{Normal}} = 0.085mg = 0.085 \times 450 \times 9.8 = 375 \text{ N}$$

The angle is zero, so the cosine is one, then: $\text{Power} = 375 \text{ N} \times 1.5 \text{ m/s} = 562 \text{ watts}$

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Daniel F McAuley



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