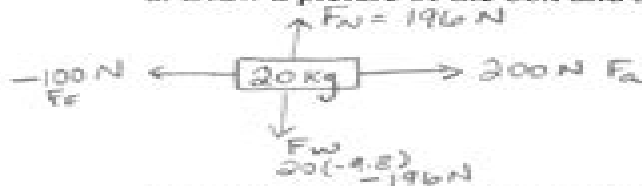


# Key

## Forces Worksheet #3 - Newton's Laws Problems Friction

1. A box is resting on a flat surface. The box has a mass of 20 kg and a force of 200 N is pushing the box to the right. The force of friction acting on the box is 100 N to the left.

a. Draw a picture of the box and show all the forces that are acting on the box.

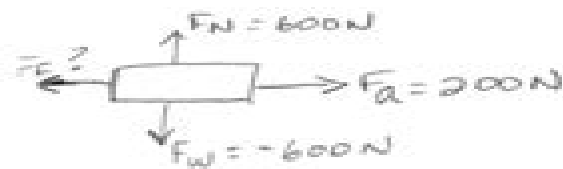


b. What is the acceleration of the box?

$$\begin{aligned}\Sigma F &= F_a - F_f = ma \\ 200\text{ N} - 100\text{ N} &= (20\text{ kg}) \cdot a \\ \frac{100}{20} &= \frac{20a}{20} \\ 5\text{ m/s}^2 &= a\end{aligned}$$

2. A sled is loaded so that it has a weight of 600 N. It is being pulled by sled dogs that are exerting a force of 200 N to the right. The sled is moving at a constant velocity of 2 m/s.

a. What is the net force acting on the sled?



$$\begin{aligned}\Sigma F &= ma \\ \Sigma F &= (m)(0) \\ \Sigma F &= 0\text{ N}\end{aligned}$$

$$\begin{aligned}\therefore a &= 0 \text{ and} \\ F_a - F_f &= 0 \\ 200 - F_f &= 0 \\ -200 + 200 &= 0 \\ F_f &= 200\end{aligned}$$

b. What is the coefficient of friction between the sled rails and the snowy surface?

$$\begin{aligned}F_f &= \mu F_N \\ \frac{200\text{ N}}{600\text{ N}} &= \frac{\mu(600\text{ N})}{600\text{ N}} \\ \mu &= 0.33\end{aligned}$$

# Physics Regents Friction Work Sheet Answers Mr Wilson

**Mark Steyvers**



**Physics Regents Friction Work Sheet Answers Mr Wilson:**

*English Mechanic and World of Science* ,1867      *Scientific American* ,1887  
**Science** ,1867      **English Mechanic and Mirror of Science and Arts** ,1867  
**Science and Art** ,1867

**English Mechanic and Mirror of**  
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## **Physics Regents Friction Work Sheet Answers Mr Wilson** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physics Regents Friction Work Sheet Answers Mr Wilson**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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