

## Problems

1. A force of 1.2 N [ $\leftarrow$ ] is applied to an object of mass 1.5 kg. It accelerates at 0.50 m/s<sup>2</sup> [ $\leftarrow$ ] along a surface. Determine the force of friction that is acting and the coefficient of kinetic friction involved.



From x dir:

$$\begin{aligned} F_{app} - F_f &= ma \\ F_f &= F_{app} - ma \\ F_f &= 1.2\text{ N} - (1.5\text{ kg})(0.50\text{ m/s}^2) \\ F_f &= 0.45\text{ N} \\ F_f &= 0.45\text{ N } [\rightarrow] \end{aligned}$$

From y dir:

$$\begin{aligned} F_N - F_g &= 0 \\ F_N &= F_g \\ F_f &= \mu F_N \\ \mu &= \frac{F_f}{F_N} \\ \mu &= \frac{0.45\text{ N}}{(1.5\text{ kg})(9.8\text{ m/s}^2)} \\ \mu &= 0.03 \end{aligned}$$

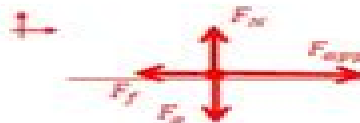
2. Two children pull a toy truck of mass 2.4 kg along a rough horizontal surface. One child pulls with a force of 8.4 N [N] and the other pulls with a force of 3.6 N [S]. The coefficient of friction between the toy and surface is 0.18. What is the acceleration of the toy?



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_1 - F_2 - F_f = ma \\ a &= \frac{F_1 - F_2 - \mu mg}{m} \\ a &= \frac{8.4\text{ N} - 3.6\text{ N} - (0.18)(2.4\text{ kg})(9.8\text{ m/s}^2)}{2.4\text{ kg}} \\ a &= 0.236\text{ m/s}^2 \\ a &= 0.24\text{ m/s}^2 \text{ [N]} \end{aligned}$$

3. What minimum magnitude of force would be required to start a 1.0-kg object sliding along a horizontal surface if the coefficient of static friction is 0.20?



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_{app} - F_f = ma \\ F_{app} - F_f &= 0 \\ F_{app} &= \mu mg \\ F_{app} &= (0.20)(1.0\text{ kg})(9.8\text{ m/s}^2) \\ F_{app} &= 1.96\text{ N} \\ F_{app} &> 2.0\text{ N} \end{aligned}$$

4. Show that an applied force of 4.0 N is insufficient to get a stationary 2.0-kg object to move horizontally if the coefficient of starting friction is 0.25.



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_{app} - F_f = ma \\ F_{app} - F_f &> 0? \\ F_{app} - \mu mg &> 0? \\ 4.0\text{ N} - (0.25)(2.0\text{ kg})(9.8\text{ m/s}^2) &> 0? \\ -0.9\text{ N} &> 0? \end{aligned}$$

Since the applied force is not large than the force of static friction, their sum is less than 0 N and therefore insufficient to get the object moving.

# Dynamics Problems And Solutions

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### **Table of Contents Dynamics Problems And Solutions**

1. Understanding the eBook Dynamics Problems And Solutions
  - The Rise of Digital Reading Dynamics Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Dynamics Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Problems And Solutions

- Personalized Recommendations
- Dynamics Problems And Solutions User Reviews and Ratings
- Dynamics Problems And Solutions and Bestseller Lists
- 5. Accessing Dynamics Problems And Solutions Free and Paid eBooks
  - Dynamics Problems And Solutions Public Domain eBooks
  - Dynamics Problems And Solutions eBook Subscription Services
  - Dynamics Problems And Solutions Budget-Friendly Options
- 6. Navigating Dynamics Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Dynamics Problems And Solutions Compatibility with Devices
  - Dynamics Problems And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Dynamics Problems And Solutions
  - Highlighting and Note-Taking Dynamics Problems And Solutions
  - Interactive Elements Dynamics Problems And Solutions
- 8. Staying Engaged with Dynamics Problems And Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Dynamics Problems And Solutions
- 9. Balancing eBooks and Physical Books Dynamics Problems And Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Dynamics Problems And Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Dynamics Problems And Solutions
  - Setting Reading Goals Dynamics Problems And Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dynamics Problems And Solutions

- Fact-Checking eBook Content of Dynamics Problems And Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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