NEWTON'S LAWS PRACTICE PROBLEMS

Answer the following questions in your <u>science notebook</u>. Show all of your work for math problems (equation, plug-in numbers, box answer). Restate the question in your answer for answers that you explain in words.

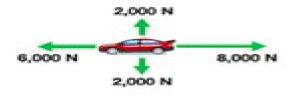
NET FORCE & NEWTON'S 157 LAW OF MOTION

 Describe the motion of the race car shown in the graphic to the right. Assume the car is moving forward. Is it speeding up or slowing down?

Slowing down

Find the net force on each box.





You weigh a bear by making him stand on four scales as shown. Draw a free-body diagram showing all the forces acting on the bear. If his weight is 1,500 newtons, what is the reading on the fourth scale?



- 4. A bowling ball has a mass of 6 kilograms. A tennis ball has a mass of 0.06 kilogram. How much inertia does the bowling ball have compared to the tennis ball?
- 5. Make a free-body diagram of someone pushing a refrigerator that shows:
 a. A net force of 100 N with the refrigerator being pushed to the right.
 b. The refrigerator in equilibrium.



NEWTON'S 2" LAW OF MOTION

- 6. A 100 kg bag of sand has a weight on 100 N. When dropped its acceleration is what?

 F-mq 100H-Qookijq Q-100H/100 m Q-1 m/3*
- 7. What is the net force required to give an automobile of mass 1600 kg an acceleration of 4.5 m/s²?
- 8. What is the acceleration of a wagon of mass 20 kg if a horizontal force of 64 N is applied to it? (ignore friction)

 F-mq L4N-(2015)0 4-2015 4-32 5-5
- 9. What is the mass of an object that is experiencing a net force of 200 N and an acceleration of 500 m/s²? 200 m(500 m/s²) m = 0.4 kg
- 10. During a test crash, an air bag inflates to stop a dummy's forward motion. The dummy's mass is 75 kg. If the net force on the dummy is 825 N toward the rear of the car, what is the dummy's deceleration?

Newtons Law Practice Problems Answer Key

EW Minium

Newtons Law Practice Problems Answer Key:

This book delves into Newtons Law Practice Problems Answer Key. Newtons Law Practice Problems Answer Key is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Newtons Law Practice Problems Answer Key, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Newtons Law Practice Problems Answer Key
 - Chapter 2: Essential Elements of Newtons Law Practice Problems Answer Key
 - o Chapter 3: Newtons Law Practice Problems Answer Key in Everyday Life
 - Chapter 4: Newtons Law Practice Problems Answer Key in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 6. In chapter 5, this book will draw a conclusion about Newtons Law Practice Problems Answer Key. This chapter will summarize the key points that have been discussed throughout the book.

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