

FORCE AND ACCELERATION WORKSHEET

$$F = m \times a$$

1. Jennifer has a mass of 60kg and is accelerating down the hill on her skateboard at a rate of 3m/s^2 .

a. What is the force applied to Jennifer?

180N

b. Jihaan is riding on his bike behind with a combined mass of 110kg. What forward force must he apply to keep up with Jennifer?

330N

2. Joel is standing on the scales in the lift at the bottom of the Burj Khalifa. He knows his mass to be 73kg.

a. The scales Joel is standing on reads 715.4N, what is the acceleration due to gravity?

9.8m/s^2

b. The elevator now accelerates upwards at a rate of 0.1m/s^2 , what do the scales read now?

897.9N

3. A Bugatti Veyron can accelerate from 0 to 60mph in 2.46 seconds.

a. What's the max acceleration of the Bugatti Veyron? (1mph equals 0.45m/s)

10.98s ~ 11s

b. During this acceleration, the engines apply a force of 12500N to the car. Calculate the mass of the Bugatti Veyron.

1136kg

4. A rebel alliance ship is on the run from an imperial war ship. The rebel ship with cargo has a combined mass of 17500kg and is accelerating at a rate of 2.8km/s^2 .

a. What is the force applied to the engines to accelerate the rebel ship? (no pun intended)

$49000000\text{N} = 4.9 \times 10^7\text{N}$

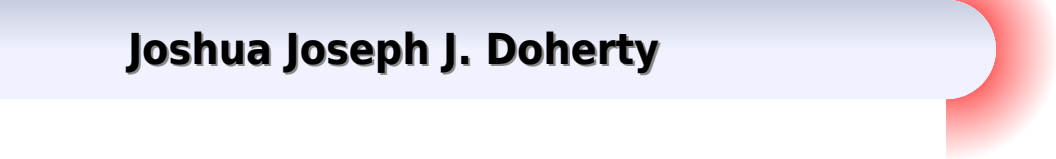
Unfortunately, the imperial war ship is catching up, accelerating at a rate of 3.5km/s^2 . In order to escape, the crew of the rebel ship decide to jettison some cargo.

b. How much mass must the rebel's jettison in order to escape the imperial ship?

3500kg

Answers Key To Force And Acceleration

Joshua Joseph J. Doherty



Answers Key To Force And Acceleration:

Modular Science for Edexcel Graham Booth, 2002 **Educart NCERT Exemplar Class 9 Science 2025 Problems Solutions (For 2025-26 Board Exam)** Educart, 2025-02-18 *GO TO Objective NEET 2021 Physics Guide 8th Edition* Disha Experts, *Guide to Indian Navy Senior Secondary Recruit (SSR) & Artificer Apprentice (AA) Exam 2021-22* Disha Experts, 2021-10-27 Complete Guide for NAVY SSR AA has been specially designed for the aspirants of Indian Navy SSR Senior Secondary Recruitment Artificer Apprentice recruitment Exam 2021 22 The book is highly recommended to study and improve your problem solving skills with thorough study and practice of numerous questions provided in the book This book covers 1 Thorough syllabus of each section a English b General Awareness c Maths d Physics 2 Based on latest pattern 3 2000 Questions for practice including previous year Questions 4 Detailed Solution to each and every question Based on the Current pattern of the exam the book will prove very useful for study practice and during the precious moments before the exam for reference and revision While the specialized study and practice material of this book has been aimed to prepare you well for sure success *Vol 03: Mechanics-II : Adaptive Problems Book in Physics for College & High School* SATYAM SIR, 2021-11-26 This book will cover the following Chapter s Work Energy Power Energy and Momentum Rotational Motion This book contains Basic Math for Physics Vectors Units and Measurements It is divided into several subtopics where it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Questions Chapter wise Test with Level 1 Level 2 Difficulty NCERT BOARD Level Questions for Practice Previous Year Questions JEE Mains Previous Year Questions JEE Advanced Previous Year Questions NEET CBSE More than 300 Questions from Each Chapter About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit www.physicsfactor.com or whatsapp to our customer care number 91 7618717227 **Guide to Airports Authority of India (AAI) Junior Executive Air Traffic Control (ATC)** Disha Experts, 2020-02-04 *Norman Hall's Asvab Preparation Book* Norman Hall, 2015-01-02 Everything you need to know thoroughly covered in one book five ASVAB practice tests answer keys tips to boost scores military enlistment information study aids **Oswaal NDA-NA National Defence Academy / Naval Academy Chapterwise & Topicwise (2014-2023) Solved Papers General Ability Test: General Studies (For 2024 Exam)** Oswaal Editorial Board, 2023-10-25 Description of the product 100% updated with Fully Solved April September 2023 Papers Concept Clarity with Concept based Revision notes Mind Maps Extensive Practice

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CIRCULAR MOTION Dr. Sanjay Kumar, 2020-10-13 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Our main goals in writing this text book are to present the basic concepts and principles of physics that students need to know for their competitive exams

- 1 to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts
- 2 to develop students problem solving skills and confidence in a systematic manner
- 3 to motivate students by integrating real world examples that build upon their everyday experiences

Main Features of the Book

- 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion
- 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer
- 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun
- 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion

Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

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