

General Relativity Hobson Solutions

Problem Book in Relativity and Gravitation General Relativity A Student's Manual for A First Course in General Relativity General Relativity Student Solutions Manual for Mathematical Methods for Physics and Engineering A First Course in General Relativity Mathematical Methods for Physics and Engineering Student Solution Manual for Foundation Mathematics for the Physical Sciences A First Course in General Relativity Relativity Conversations on Quantum Gravity A General Relativity Workbook Mathematics for the Physical Sciences Relativity Made Relatively Easy Relativity, Gravitation and Cosmology Student Solution Manual for Essential Mathematical Methods for the Physical Sciences Introduction to General Relativity Applied General Relativity Mathematical Methods and Physical Insights A Relativist's Toolkit General Relativity Simplified & Assessed Gravitation Problems and Solutions on Vector Spaces for Physicists Mathematical Introduction To General Relativity, A (Second Edition) Relativity, Gravitation and Cosmology General Relativity Nonlinear Dynamics and Chaos A Student's Guide to Lagrangians and Hamiltonians 300 Problems in Special and General Relativity Introduction to Special Relativity Laws of UX Physics: Pearson New International Edition Modern General Relativity Mathematics for Physicists Special Relativity Relativistic Cosmology A Student's Guide to Vectors and Tensors Mathematical Methods in the Physical Sciences Black Hole Physics Manifolds, Tensors and Forms Alan P. Lightman M. P. Hobson Robert B. Scott Michael Paul Hobson Kenneth Franklin Riley Bernard Schutz Kenneth Franklin Riley K. F. Riley Bernard F. Schutz Wolfgang Rindler Jácome Armas Thomas A. Moore James B. Seaborn Andrew M. Steane Ta-Pei Cheng K. F. Riley Lewis Ryder Michael H. Soffel Alec J. Schramm Eric Poisson Taha Sochi T. Padmanabhan Robert B. Scott Amol Sasane Robert J. Lambourne N.M.J. Woodhouse Steven H. Strogatz Patrick Hamill Mattias Blennow Wolfgang Rindler Jon Yablonski Art Hobson M. W. Guidry Alexander Altland A.P. French George F. R. Ellis Daniel A. Fleisch Mary L. Boas V. Frolov Paul Renteln

Problem Book in Relativity and Gravitation General Relativity A Student's Manual for A First Course in General Relativity General Relativity Student Solutions Manual for Mathematical Methods for Physics and Engineering A First Course in General Relativity Mathematical Methods for Physics and Engineering Student Solution Manual for Foundation Mathematics for the Physical Sciences A First Course in General Relativity Relativity Conversations on Quantum Gravity A General Relativity Workbook Mathematics for the Physical Sciences Relativity Made Relatively Easy Relativity, Gravitation and Cosmology Student Solution Manual for Essential Mathematical Methods for the Physical Sciences Introduction to General Relativity Applied General Relativity Mathematical Methods and Physical Insights A Relativist's Toolkit General Relativity Simplified & Assessed Gravitation Problems and Solutions on Vector Spaces for Physicists Mathematical Introduction To General Relativity, A (Second Edition) Relativity, Gravitation and Cosmology General Relativity Nonlinear Dynamics and Chaos A Student's Guide to Lagrangians and Hamiltonians 300 Problems in Special and General Relativity Introduction to Special Relativity Laws of UX Physics: Pearson New International Edition Modern General Relativity Mathematics for Physicists Special Relativity Relativistic Cosmology A Student's Guide to Vectors and Tensors Mathematical Methods in the Physical Sciences Black Hole Physics Manifolds, Tensors and Forms *Alan P. Lightman M. P.*

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an essential resource for learning about general relativity and much more from four leading experts important and useful to every student of relativity this book is a unique collection of some 475 problems with solutions in the fields of special and general relativity gravitation relativistic astrophysics and cosmology the problems are expressed in broad physical terms to enhance their pertinence to readers with diverse backgrounds in their solutions the authors have attempted to convey a mode of approach to these kinds of problems revealing procedures that can reduce the labor of calculations while avoiding the pitfall of too much or too powerful formalism although well suited for individual use the volume may also be used with one of the modern textbooks in general relativity

general relativity an introduction for physicists provides a clear mathematical introduction to einstein s theory of general relativity it presents a wide range of applications of the theory concentrating on its physical consequences after reviewing the basic concepts the authors present a clear and intuitive discussion of the mathematical background including the necessary tools of tensor calculus and differential geometry these tools are then used to develop the topic of special relativity and to discuss electromagnetism in minkowski spacetime gravitation as spacetime curvature is then introduced and the field equations of general relativity derived after applying the theory to a wide range of physical situations the book concludes with a brief discussion of classical field theory and the derivation of general relativity from a variational principle written for advanced undergraduate and graduate students this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text

this comprehensive student manual has been designed to accompany the leading textbook by bernard schutz a first course in general relativity and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving the perfect accompaniment to schutz s textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations it provides detailed solutions to almost half of schutz s exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter it includes a comprehensive index and collects useful mathematical results such as transformation matrices and christoffel symbols for commonly studied spacetimes in an appendix supported by an online table categorising exercises a maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using schutz s textbook

written for advanced undergraduate and graduate students this is a clear mathematical introduction to einstein s theory of general relativity and its physical applications concentrating on the theory s physical consequences this approachable textbook contains over 300 exercises to

illuminate and extend the discussion

the authors present a wide ranging and comprehensive textbook for physical scientists who need to use the tools of mathematics for practical purposes

second edition of a widely used textbook providing the first step into general relativity for undergraduate students with minimal mathematical background

this student solution manual provides complete solutions to all the odd numbered problems in foundation mathematics for the physical sciences it takes students through each problem step by step so they can clearly see how the solution is reached and understand any mistakes in their own working students will learn by example how to arrive at the correct answer and improve their problem solving skills

this textbook develops general relativity and its associated mathematics from a minimum of prerequisites leading to a physical understanding of the theory in some depth

relativistic cosmology has in recent years become one of the most active and exciting branches of research often considered to be today where particle physics was forty years ago with major discoveries just waiting to happen consequently the part most affected by this second edition is the last part on cosmology but there are additions improvements and new exercises throughout the book s basic purpose is unchanged it is to make relativity come alive conceptually and to display the grand theoretical edifice that it is with consequences in many branches of physics the emphasis is on the foundations on the logical subtleties and on presenting the necessary mathematics including differential geometry and tensors but always as late and in as palatable a form as possible aided by over 300 exercises the book seeks to promote an in depth understanding and the confidence to tackle any basic problem in relativity

leading theorists share their important insights into the ongoing quest of theoretical physics to find a quantum theory of gravity

a general relativity workbook is a textbook intended to support a one semester undergraduate course on general relativity through its unique workbook based design it enables students to develop a solid mastery of both the physics and the supporting tensor calculus by guiding them to work through the implications the mathematics is introduced gradually and in a completely physical context each chapter which is designed to correspond to one class session involves a short overview of the concepts without obscuring derivations or details followed by a series of boxes that guide students through the process of working things out this active learning approach enables students to develop a more secure mastery of the material than more traditional approaches more than 350 homework problems support further learning

the book provides a bridge from courses in general physics to the intermediate level courses in classical mechanics electrodynamics and quantum mechanics the author bases the mathematical discussions on specific physical problems to provide a basis for developing mathematical intuition

this book unfolds the subject of relativity for undergraduate students of physics it fills a gap between introductory descriptions and texts for researchers assuming almost no prior knowledge

it allows the student to handle all the relativity needed for a university course with explanations as simple thorough and engaging as possible

an introduction to einstein s general theory of relativity this work is structured so that interesting applications such as gravitational lensing black holes and cosmology can be presented without the readers having to first learn the difficult mathematics of tensor calculus

this student solution manual provides complete solutions to all the odd numbered problems in essential mathematical methods for the physical sciences it takes students through each problem step by step so they can clearly see how the solution is reached and understand any mistakes in their own working students will learn by example how to select an appropriate method improving their problem solving skills

student friendly well illustrated textbook for advanced undergraduate and beginning graduate students in physics and mathematics

in the late 20th and beginning 21st century high precision astronomy positioning and metrology strongly rely on general relativity supported by exercises and solutions this book offers graduate students and researchers entering those fields a self contained and exhaustive but accessible treatment of applied general relativity the book is written in a homogenous graduate level textbook style allowing the reader to understand the arguments step by step it first introduces the mathematical and theoretical foundations of gravity theory and then concentrates on its general relativistic applications clock rates clock sychronization establishment of time scales astronomical references frames relativistic astrometry celestial mechanics and metrology the authors present up to date relativistic models for applied techniques such as satellite laser ranging slr lunar laser ranging llr globale navigation satellite systems gnss very large baseline interferometry vlbi radar measurements gyroscopes and pulsar timing a list of acronyms helps the reader keep an overview and a mathematical appendix provides required functions and terms

mathematics instruction is often more effective when presented in a physical context schramm uses this insight to help develop students physical intuition as he guides them through the mathematical methods required to study upper level physics based on the undergraduate math methods course he has taught for many years at occidental college the text encourages a symbiosis through which the physics illuminates the math which in turn informs the physics appropriate for both classroom and self study use the text begins with a review of useful techniques to ensure students are comfortable with prerequisite material it then moves on to cover vector fields analytic functions linear algebra function spaces and differential equations written in an informal and engaging style it also includes short supplementary digressions by the ways as optional boxes showcasing directions in which the math or physics may be explored further extensive problems are included throughout many taking advantage of mathematica to test and deepen comprehension

this 2004 textbook fills a gap in the literature on general relativity by providing the advanced student with practical tools for the computation of many physically interesting quantities the context is provided by the mathematical theory of black holes one of the most elegant successful and relevant applications of general relativity among the topics discussed are congruencies of

timelike and null geodesics the embedding of spacelike timelike and null hypersurfaces in spacetime and the lagrangian and hamiltonian formulations of general relativity although the book is self contained it is not meant to serve as an introduction to general relativity instead it is meant to help the reader acquire advanced skills and become a competent researcher in relativity and gravitational physics the primary readership consists of graduate students in gravitational physics it will also be a useful reference for more seasoned researchers working in this field

this book is about the general theory of relativity which is concisely labeled as general relativity the book is the result of a rather extensive view to the literature of this theory over most of its lifetime reflecting various stages of its development the book contains 129 solved problems as well as 606 exercises whose detailed solutions are published in another book that accompanies the present book the book also includes a detailed index and many cross references the book can be used as an introduction to general relativity at undergraduate and graduate levels unlike most other books on general relativity which are mostly dedicated to the presentation justification application and validation of the formalism of the theory and hence rather minor attention is usually paid to the interpretation and epistemology of the theory this book is primarily interested in the interpretative and epistemological aspects of the theory

covering all aspects of gravitation in a contemporary style this advanced textbook is ideal for graduate students and researchers in all areas of theoretical physics the foundation section develops the formalism in six chapters and uses it in the next four chapters to discuss four key applications spherical spacetimes black holes gravitational waves and cosmology the six chapters in the frontier section describe cosmological perturbation theory quantum fields in curved spacetime and the hamiltonian structure of general relativity among several other advanced topics some of which are covered in depth for the first time in a textbook the modular structure of the book allows different sections to be combined to suit a variety of courses over 200 exercises are included to test and develop the reader s understanding there are also over 30 projects which help readers make the transition from the book to their own original research

this book offers supporting material for the comprehensive textbook mathematical physics a modern introduction to its foundations authored by sadri hassani the book covers mathematical preliminaries and all of part i in hassani s textbook the subjects covered here include the key topics necessary for physicists to form a solid mathematical foundation vectors and linear maps algebras operators matrices and spectral decomposition in particular the vector space concept is a central unifying theme in later chapters of hassani s textbook detailed solutions are provided to one third of the end of chapter exercises in the first six chapters of his text the present volume helps upper undergraduate and early postgraduate physics students deepen their understanding of the mathematics that they encounter in physics learn physics more efficiently and use mathematics with more confidence and creativity the content is thus presented rigorously but remains accessible to physics students new exercises are also proposed some with solutions some without so that the total number of unsolved exercises remains unchanged they are chosen to help explain difficult concepts amplify key points in hassani s textbook or make further connections with applications in physics taken together with hassani s work the two form a self contained set and the solutions make detailed reference to hassani s text the solutions also refer to other mathematics and physics textbooks providing entry points to further literature that finds

a useful place in the physicist's personal library

the book aims to give a mathematical presentation of the theory of general relativity that is spacetime geometry based gravitation theory to advanced undergraduate mathematics students mathematicians will find spacetime physics presented in the definition theorem proof format familiar to them the given precise mathematical definitions of physical notions help avoiding pitfalls especially in the context of spacetime physics describing phenomena that are counter intuitive to everyday experiences in the first part the differential geometry of smooth manifolds which is needed to present the spacetime based gravitation theory is developed from scratch here many of the illustrating examples are the lorentzian manifolds which later serve as spacetime models this has the twofold purpose of making the physics forthcoming in the second part relatable and the mathematics learnt in the first part less dry the book uses the modern coordinate free language of semi riemannian geometry nevertheless to familiarise the reader with the useful tool of coordinates for computations and to bridge the gap with the physics literature the link to coordinates is made through exercises and via frequent remarks on how the two languages are related in the second part the focus is on physics covering essential material of the 20th century spacetime based view of gravity energy momentum tensor field of matter field equation spacetime examples newtonian approximation geodesics tests of the theory black holes and cosmological models of the universe prior knowledge of differential geometry or physics is not assumed the book is intended for self study and the solutions to all the 283 exercises are included the second edition corrects errors from the first edition and includes 60 new exercises 10 new remarks 29 new figures some of which cover auxiliary topics that were omitted in the first edition

the textbook introduces students to basic geometric concepts such as metrics connections and curvature before examining general relativity in more detail it shows the observational evidence supporting the theory and the description general relativity provides of black holes and cosmological spacetimes

based on a course taught for years at oxford this book offers a concise exposition of the central ideas of general relativity the focus is on the chain of reasoning that leads to the relativistic theory from the analysis of distance and time measurements in the presence of gravity rather than on the underlying mathematical structure includes links to recent developments including theoretical work and observational evidence to encourage further study

this textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject the presentation stresses analytical methods concrete examples and geometric intuition the theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors a unique feature of the book is its emphasis on applications these include mechanical vibrations lasers biological rhythms superconducting circuits insect outbreaks chemical oscillators genetic control systems chaotic waterwheels and even a technique for using chaos to send secret messages in each case the scientific background is explained at an elementary level and closely integrated with mathematical theory in the twenty

years since the first edition of this book appeared the ideas and techniques of nonlinear dynamics and chaos have found application to such exciting new fields as systems biology evolutionary game theory and sociophysics this second edition includes new exercises on these cutting edge developments on topics as varied as the curiosities of visual perception and the tumultuous love dynamics in gone with the wind

a concise treatment of variational techniques focussing on lagrangian and hamiltonian systems ideal for physics engineering and mathematics students

a textbook neutral problems and solutions book that complements any relativity textbook at advanced undergraduate or masters level

our sharpest and most original social critic goes undercover as an unskilled worker to reveal the dark side of american prosperity millions of americans work full time year round for poverty level wages in 1998 barbara ehrenreich decided to join them she was inspired in part by the rhetoric surrounding welfare reform which promised that a job any job can be the ticket to a better life but how does anyone survive let alone prosper on 6 an hour to find out ehrenreich left her home took the cheapest lodgings she could find and accepted whatever jobs she was offered moving from florida to maine to minnesota she worked as a waitress a hotel maid a cleaning woman a nursing home aide and a wal mart sales clerk she lived in trailer parks and crumbling residential motels very quickly she discovered that no job is truly unskilled that even the lowliest occupations require exhausting mental and muscular effort she also learned that one job is not enough you need at least two if you int to live indoors nickel and dimed reveals low rent america in all its tenacity anxiety and surprising generosity a land of big boxes fast food and a thousand desperate stratagems for survival read it for the smoldering clarity of ehrenreich s perspective and for a rare view of how prosperity looks from the bottom you will never see anything from a motel bathroom to a restaurant meal in quite the same way again

an understanding of psychology specifically the psychology behind how users behave and interact with digital interfaces is perhaps the single most valuable nondesign skill a designer can have the most elegant design can fail if it forces users to conform to the design rather than working within the blueprint of how humans perceive and process the world around them this practical guide explains how you can apply key principles in psychology to build products and experiences that are more intuitive and human centered author jon yablonski deconstructs familiar apps and experiences to provide clear examples of how ux designers can build experiences that adapt to how users perceive and process digital interfaces you ll learn how aesthetically pleasing design creates positive responses the principles from psychology most useful for designers how these psychology principles relate to ux heuristics predictive models including fitts s law jakob s law and hick s law ethical implications of using psychology in design a framework for applying these principles

written for the non science major this text emphasizes modern physics and the scientific process and engages students by drawing connections between physics and everyday experience hobson takes a conceptual approach with an appropriate focus on quantitative skills the fifth edition increases coverage of key environmental topics such as global warming and energy and adds new topics such as momentum hobson s text remains the least expensive textbook available for

students taking nonmajors physics

introduces the physics of general relativity in relation to modern topics such as gamma ray bursts black holes and gravitational waves

this textbook is a comprehensive introduction to the key disciplines of mathematics linear algebra calculus and geometry needed in the undergraduate physics curriculum its leitmotiv is that success in learning these subjects depends on a good balance between theory and practice reflecting this belief mathematical foundations are explained in pedagogical depth and computational methods are introduced from a physicist's perspective and in a timely manner this original approach presents concepts and methods as inseparable entities facilitating in depth understanding and making even advanced mathematics tangible the book guides the reader from high school level to advanced subjects such as tensor algebra complex functions and differential geometry it contains numerous worked examples info sections providing context biographical boxes several detailed case studies over 300 problems and fully worked solutions for all odd numbered problems an online solutions manual for all even numbered problems will be made available to instructors

the book opens with a description of the smooth transition from newtonian to einsteinian behaviour from electrons as their energy is progressively increased and this leads directly to the relativistic expressions for mass momentum and energy of a particle

surveying key developments and open issues in cosmology for graduate students and researchers this book focuses on the general concepts and relations that underpin the standard model of the universe it also examines anisotropic and inhomogeneous models and deeper issues such as quantum cosmology and the multiverse proposal

vectors and tensors are among the most powerful problem solving tools available with applications ranging from mechanics and electromagnetics to general relativity understanding the nature and application of vectors and tensors is critically important to students of physics and engineering adopting the same approach used in his highly popular a student's guide to maxwell's equations fleisch explains vectors and tensors in plain language written for undergraduate and beginning graduate students the book provides a thorough grounding in vectors and vector calculus before transitioning through contra and covariant components to tensors and their applications matrices and their algebra are reviewed on the book's supporting website which also features interactive solutions to every problem in the text where students can work through a series of hints or choose to see the entire solution at once audio podcasts give students the opportunity to hear important concepts in the book explained by the author

now in its third edition mathematical concepts in the physical sciences provides a comprehensive introduction to the areas of mathematical physics it combines all the essential math concepts into one compact clearly written reference

it is not an exaggeration to say that one of the most exciting predictions of einstein's theory of gravitation is that there may exist black holes putative objects whose gravitational fields are so strong that no physical bodies or signals can break free of their pull and escape the proof that

black holes do exist and an analysis of their properties would have a significance going far beyond astrophysics indeed what is involved is not just the discovery of yet another even if extremely remarkable astro physical object but a test of the correctness of our understanding of the properties of space and time in extremely strong gravitational fields theoretical research into the properties of black holes and into the possible corollaries of the hypothesis that they exist has been carried out with special vigor since the beginning of the 1970 s in addition to those specific features of black holes that are important for the interpretation of their possible astrophysical manifestations the theory has revealed a number of unexpected characteristics of physical interactions involving black holes by the middle of the 1980 s a fairly detailed understanding had been achieved of the properties of the black holes their possible astrophysical manifestations and the specifics of the various physical processes involved even though a completely reliable detection of a black hole had not yet been made at that time several objects among those scrutinized by astrophysicists were considered as strong candidates to be confirmed as being black holes

comprehensive treatment of the essentials of modern differential geometry and topology for graduate students in mathematics and the physical sciences

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Decoding the Conversion: 138 lbs to kg

Weight conversion is a common task faced by individuals across various fields, from everyday life to scientific research and international trade. This article focuses specifically on the conversion of 138 pounds (lbs) to kilograms (kg), providing a clear, step-by-step understanding of the process and addressing common misconceptions. We will explore the underlying principles of unit conversion, the calculation itself, and practical applications where this knowledge proves useful.

Understanding the Units: Pounds and Kilograms

Before diving into the conversion, let's establish a foundational understanding of the units involved. The pound (lb) is a unit of mass in the imperial and US customary systems of measurement. The kilogram (kg), on the other hand, is the base unit of mass in the International System of Units (SI), the most widely used system globally. The difference lies in their historical origins and the relative scales they employ. Understanding this difference is crucial for accurate conversions.

The Conversion Factor: Bridging the Gap

The key to converting between pounds and kilograms lies in the conversion factor. This factor represents the ratio between the two units. One pound is approximately equal to 0.453592 kilograms. This means that 1 lb is slightly less than half a kilogram. This seemingly small difference becomes significant when dealing with larger weights.

Calculating 138 lbs to kg: A Step-by-Step Approach

To convert 138 lbs to kg, we simply multiply the weight in pounds by the conversion factor: $138 \text{ lbs} \times 0.453592 \text{ kg/lb} \approx 62.60 \text{ kg}$. Therefore, 138 pounds is approximately equal to 62.60 kilograms. This calculation provides a precise conversion, utilizing the complete conversion factor for accuracy. However, for everyday purposes, rounding to 62.6 kg is often sufficient.

Practical Applications: Where Weight Conversion Matters

Understanding weight conversion isn't just an academic exercise; it has numerous real-world applications: **International Travel:** When traveling internationally, understanding weight limits for luggage is crucial. Airlines typically specify baggage allowances in kilograms, requiring travelers to convert their luggage weight from pounds if their scales only measure in pounds. **Shipping and Logistics:** Shipping companies often use kilograms to calculate shipping costs. Accurate weight

conversion ensures that the correct charges are applied, avoiding unexpected fees. Medical and Healthcare: In medical contexts, weight is a crucial parameter for determining dosages and assessing health conditions. Conversion between pounds and kilograms is essential for accurate diagnoses and treatment plans. Cooking and Baking: International recipes often provide ingredient weights in kilograms, necessitating conversion for users accustomed to using pounds. Scientific Research: Many scientific studies utilize the metric system, requiring researchers to convert measurements from imperial units into kilograms for consistency and comparability.

Beyond the Calculation: Addressing Potential Errors

While the conversion is straightforward, potential errors can arise from: Using an inaccurate conversion factor: Employing a rounded conversion factor can lead to slight inaccuracies, particularly when dealing with larger weights. Incorrect rounding: Rounding the result to an inappropriate number of significant figures can affect the precision of the conversion. Unit confusion: Always double-check your units to ensure you are consistently working with pounds and kilograms, avoiding any mistakes stemming from unit misidentification.

Conclusion: Mastering Weight Conversions

Converting 138 lbs to kg illustrates a fundamental concept in unit conversion. By understanding the conversion factor and the process of multiplication, we can accurately translate weights between different systems. This skill is crucial across various aspects of life, from everyday tasks to professional applications. Accurate and precise conversions ensure efficiency, avoid errors, and promote clear communication across different measurement systems.

FAQs

1. Can I use online converters instead of manual calculation? Yes, many online converters offer quick and accurate conversions between pounds and kilograms. However, understanding the underlying principles remains valuable. 2. What is the exact conversion factor? The exact conversion factor is 0.453592 kg/lb. However, for most purposes, a rounded value like 0.454 kg/lb is sufficient. 3. Why are there two different weight systems? The imperial and metric systems evolved independently, with the metric system gaining widespread adoption due to its inherent simplicity and consistency. 4. What if I need to convert kilograms to pounds? To convert kilograms to pounds, you would simply divide the weight in kilograms by the conversion factor (approximately 2.205 lbs/kg). 5. Are there other units of mass besides pounds and kilograms? Yes, other units exist, such as grams (g), ounces (oz), and tons (t). Each requires a specific conversion factor to be accurately converted to kilograms or pounds.

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