# Engineering 11 Torque and Gear Ratio Worksheet

Name:			

Mark /20

Show your work as part marks will be given. Also, assume 1n = 100g for ease of the Math.

 Looking at the gear train to the right, if the driver gear was 10 teeth and the follower gear was 40 teeth, what would be the gear ratio (1 mark)



 Looking at the compound gear train to the right as an example. If gear A was 20 teeth, Gear B was 10 teeth, Gear C was 80 and Gear D was 10. What is the gear ratio? (1mark)



3) A motor has a torque of 200nm. If the motor is attached to an arm with a length of 25cm and a string is attached at the end, approximately how many kg should it be able to lift? (1 mark)

4) You need to lift a weight of 10kg with an arm of 10cm long, what is the minimum gear reduction needed if you have a motor with a torque of 1nm? (2 marks)

5) You are creating a robotic arm that you want to have travel 180 degrees in 30 seconds. What is the gear ratio required if the motor runs at 100rpm? (2 marks)

# **Get In Gear Worksheet Answers**

P.R.N. Childs

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Mechanical Design P.R.N. Childs, 2021-06-29 Mechanical Design Theory and Applications Third Edition introduces the design and selection of common mechanical engineering components and machine elements hence providing the foundational building blocks engineers needs to practice their art In this book readers will learn how to develop detailed mechanical design skills in the areas of bearings shafts gears seals belt and chain drives clutches and brakes and springs and fasteners Where standard components are available from manufacturers the steps necessary for their specification and selection are thoroughly developed Descriptive and illustrative information is used to introduce principles individual components and the detailed methods and calculations that are necessary to specify and design or select a component As well as thorough descriptions of methodologies this book also provides a wealth of valuable reference information on codes and regulations Presents new material on key topics including actuators for robotics alternative design methodologies and practical engineering tolerancing Clearly explains best practice for design decision making Provides end of chapter case studies that tie theory and methods together Includes up to date references on all standards relevant to mechanical design including ASNI ASME BSI AGMA DIN and ISO More Everyday Engineering Richard H. Moyer, Susan A. Everett ,2016-08-01 What makes a windup toy get up and go How does an earbud operate And why does the line you re waiting in always seem the slowest Get middle schoolers engaged in the fascinating science behind familiar items with More Everyday Engineering Like Everyday Engineering this compilation brings together activities based on the Everyday Engineering columns from NSTA's award winning journal Science Scope Thirteen hands on investigations focus on three aspects of engineering designing and building reverse engineering to learn how something works and constructing and testing models Like the original collection this book is easy to use Each investigation is a complete lesson that includes in depth teacher background information expected sample data a materials list and a student activity sheet for recording results The activities use simple inexpensive materials you can find in your science classroom or at a dollar store Whether you re a teacher parent or enrichment program leader go beyond the usual bridge building and egg drop activities Spark curiosity with appealing activities that will help middle schoolers understand that engineering truly is a part of their everyday lives Forces On **Structures Gr. 4-7** Kris Graupe, 2001-01-01 May the force be with you Students study and experience forces and how they relate to simple machines and structures in this fast paced unit Students build bridges catapults and towers They participate in meaningful activities associated with the theme of each lesson which are followed with related student notes The exciting format helps to keep student interest at its highest rather than concentrating on the memorization of factual information Optional activities add further flexibility to the unit making it easy to use for the teacher Students will learn to love science class This Physical Science lesson provides a teacher and student section with a variety of reading passages activities crossword word search and answer key to create a well rounded lesson plan The Handbook of Mathematics Teacher

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