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)

Gear Ratio Worksheet Answers

G Orfield

Gear Ratio Worksheet Answers:

Gear Ratio Worksheet Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gear Ratio Worksheet Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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