

Engineering 11

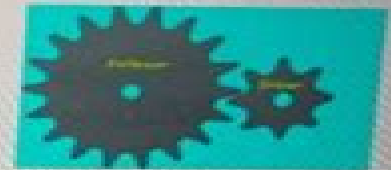
Torque and Gear Ratio Worksheet

Name: _____

Mark /20

Show your work as part marks will be given. Also, assume $1\text{N} = 100\text{g}$ for ease of the Math.

- 1) 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)



- 2) 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

Michael Hoelscher

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the author's name.

Get In Gear Worksheet Answers:

Reviewing **Get In Gear Worksheet Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Get In Gear Worksheet Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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