

# Engineering 11

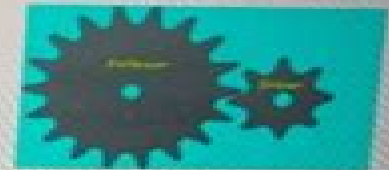
## Torque and Gear Ratio Worksheet

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  $200\text{Nm}$ . If the motor is attached to an arm with a length of  $25\text{cm}$  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  $10\text{kg}$  with an arm of  $10\text{cm}$  long, what is the minimum gear reduction needed if you have a motor with a torque of  $1\text{Nm}$ ? (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  $100\text{rpm}$ ? (2 marks)

# Gear Ratio Worksheet Answers

**A Gutmann**



## **Gear Ratio Worksheet Answers:**

## Decoding **Gear Ratio Worksheet Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gear Ratio Worksheet Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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