

Engineering 11

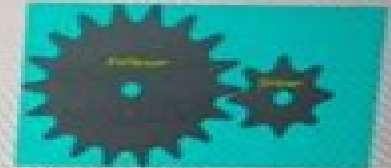
Torque and Gear Ratio Worksheet

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)

Gear Ratio Worksheet Answers

Mark Steyvers

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

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