

Engineering 11

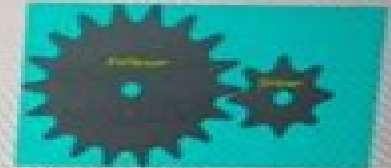
Torque and Gear Ratio Worksheet

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

E. Buckingham

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'E. Buckingham' text.

Gear Ratio Worksheet Answers:

Technology Education University of the State of New York, 1987 **Problems in Mechanism Analysis and Design**
Deane Lent, 1961 Guidelines for Teaching Mathematics Donovan A. Johnson, Gerald R. Rising, 1972 *Mathematics*
GLENCOE, 1995 *The Arithmetic Teacher*, 1990 **Backpacker**, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Backpacker**, 2004-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Physics**, 2009 *Flying Magazine*, 2003-05 **U.S. Industrial Directory**, 1981 **National Underwriter**, 1958 **The National Underwriter**, 1958 *14000 Gear Ratios* Ray M. Page, 1961 **14,000 Gear Ratios** Ray M. Page, 1961 \14000\fourteen Thousand\ Gear Ratios Ray M. Page, 1961 *102336 Four Gear Ratios Among 26 Basic Gears* Greta Scott Tagtow, 1953 **Gear Ratio Tables for 4-6-and 8-gear Combinations** Earle Buckingham, 1958 **Gear ratio tables for 4- 6- and 8- gear combinations: tables of gear ratios that permit the use of simple and direct method in finding a suitable set of change gears for a wide variety of requirements and applications involving 4-, 6-, and 8-gear trains** E. Buckingham, 1958 **1400 Gear Ratios Presented in Common Fractional and Decimal Forms and in Differently Arranged Sections to Facilitate the Solution of All Classes of Gear-ratio Problems** Ray M. Page, 1961 14000 GEAR RATIOS. TABULATED RATIOS PRESENTED IN COMMON FRACTIONAL AND DECIMAL FORMS AND IN DIFFERENTLY ARRANGED SECTIONS TO FACILITATE THE SOLUTION OF ALL CLASSES OF GEAR-RATIO PROBLEMS. 2ND PR. R.M. Page, 1942

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