

Robofest 2008 Test (for Game teams, about 10% of the total Game scores)
Time given: 10 minutes (No computers allowed; No cell phones allowed)

Team ID: _____ Team Name: _____

Competition Category: Game *or* Exhibition

Age Division: Jr. *or* Sr.

Team School or Organization Name: _____

Q1 (6 points). What are 3 things that gears change? Complete the following:

- _____
- Torque (rotational force)
- Direction of rotating axles

Q2 (5 points). Assume a robot moves forward 20cm for one rotation of two identical wheels connected to identical motors. How many rotations are needed to program the robot to move forward 1 meter?

Q3 (6 points). Briefly explain what your team would have done differently: