

# Review Test on Gears and Tootsie Machines

On a bike know what sprocket combination would you use to go the fastest and slowest hardest to turn and easiest to turn. (use driver and driven gears in the answer and use the words biggest and smallest)

Be able to determine a gear ratio from a problem given the # of teeth on the driver and driven gear.

Be able to determine a gear rotations from a problem given the # of teeth on the driver and driven gear.

Be able to draw and label the driver gear - # of teeth and the driven gear #.

Be able to draw a pair of gears (label driver – driven - # of teeth on driver gear - # of teeth on driven gear – and the gear ratio) given gears have a teeth ratio.

Look at gear trains and determine gear ratios.

Define Torque: (show the formula)

Know some facts about Tootsie Roll Industries, Inc. Who is the President, Where do they make Tootsie Rolls, what other engineering schools have done this experiment.