

Calculating Drive Train Ratios Work Sheet

Name: _____ Module: _____ Date: _____ Period: _____

Directions: For each problem, write, in words, the formula, the formula in algebraic notation, definitions for each variable, the formula using the proper values, and the answer. Round your answers to the nearest 100th. Use the calculator if necessary.

1. This simple gear train has the following gears:

A = 15T, 51 mm

B = 20T, 68 mm

C = 35T, 119 mm

D = 50T, 170 mm

Calculate the SR using both teeth and diameter.

2. Imagine a compound gear train having the following gears:

A = 59.7 mm

B = 114.2 mm

C = 99.5 mm

D = 27.1 mm

E = 65 mm

Gears B and C are on the same shaft. Sketch the drive train, then calculate its SR.