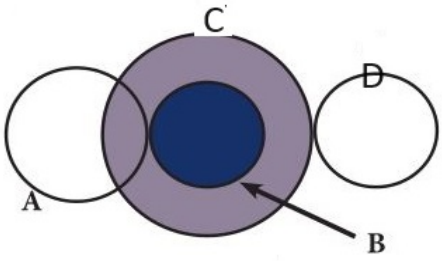
Name:_____

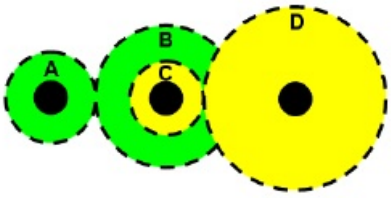
For the system of gears pictured, when gear A = 20 teeth, gear B = 6 teeth, gear C = 76 teeth, and gear D = 30 teeth, and the input torque is 96 N-m, what is the output torque (precision of 0.01)?



$\frac{6}{20}$ $\frac{30}{76}$

$\frac{3}{10} \cdot \frac{15}{38}$ $\frac{45}{380}$ $\frac{9}{76} = \frac{10.66}{90}$

For the system of gears pictured, when gear A = 38 teeth, gear B = 24 teeth, gear C = 26 teeth, and gear D = 58 teeth, and the input torque is 94 N-m, what is the output torque (precision of 0.01)?



$\frac{24}{38}$ $\frac{58}{26}$

$\frac{29}{13}$

$\frac{12}{19} \cdot \frac{29}{13}$ $\frac{348}{247} = \frac{132.44}{94}$

Write ONLY answers below this line _____

GRSSet16

a:_____10.66_____

b:_____132.44_____