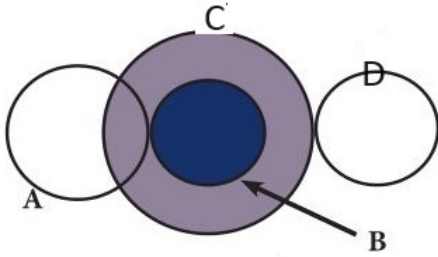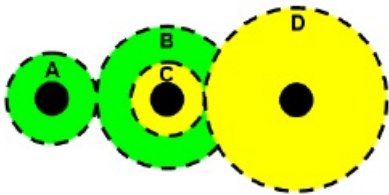Name: _Raj Dhillon_

For the system of gears pictured, when gear A = 68 teeth, gear B = 22 teeth, gear C = 50 teeth, and gear D = 24 teeth, and the input torque is 80 N-m, what is the output torque (precision of 0.01)?

$$80 \frac{x}{80} = \frac{68}{22} \times \frac{50}{24} \cdot 80$$

$$x = 515.15$$

For the system of gears pictured, when gear A = 18 teeth, gear B = 96 teeth, gear C = 26 teeth, and gear D = 50 teeth, and the input torque is 80 N-m, what is the output torque (precision of 0.01)?

$$80 \frac{x}{80} = \frac{18}{96} \cdot \frac{26}{50} \cdot 80$$

$$x = 7.80$$

Write ONLY answers below this line _____

GRSSet15

a: _515.15_

b: _7.80_