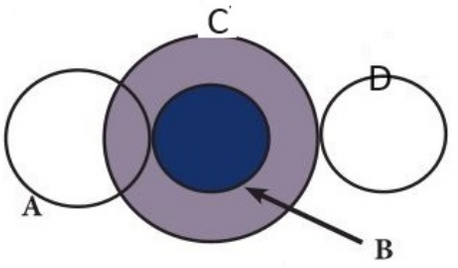
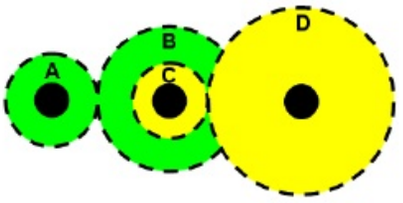
Name: Leela Prakash

For the system of gears pictured, when gear A = 74 teeth, gear B = 36 teeth, gear C = 24 teeth, and gear D = 36 teeth, and the input torque is 62 N-m, what is the output torque (precision of 0.01)?



$\frac{36}{74} \cdot \frac{36}{24} = \frac{1296}{1776} = \frac{x}{62} = 45.24$

For the system of gears pictured, when gear A = 24 teeth, gear B = 54 teeth, gear C = 38 teeth, and gear D = 88 teeth, and the input torque is 70 N-m, what is the output torque (precision of 0.01)?



$\frac{54}{24} \times \frac{88}{38} \quad \frac{4752}{912} = \frac{x}{70} = 364.74$

Write ONLY answers below this line _____

GRSSet20

a: 45.24

b: 364.74