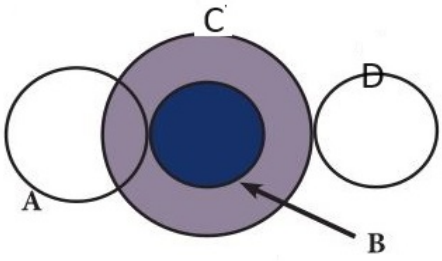
Name: Stefan

For the system of gears pictured, when gear A = 80 teeth, gear B = 32 teeth, gear C = 40 teeth, and gear D = 8 teeth, and the input speed is 50 rpm, what is the output speed (precision of 0.01)?



Driver / Driven

$\frac{80}{32} \cdot \frac{40}{8} = \frac{50}{X}$

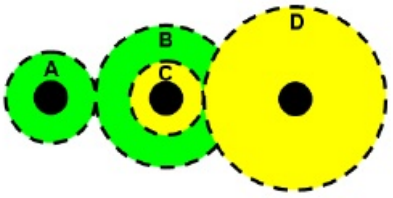
$2.5 \cdot 5 = 12.5 \cdot \frac{50}{X} \cdot X$

$12.5X = 50$

$\frac{50}{12.5}$

4

For the system of gears pictured, when gear A = 22 teeth, gear B = 98 teeth, gear C = 10 teeth, and gear D = 56 teeth, and the input speed is 40 rpm, what is the output speed (precision of 0.01)?



$\frac{22}{98} \cdot \frac{10}{56} \cdot \frac{40}{X}$

$4.4545 \cdot 5.6$

24.94

997.6

$.2245 = .1796$

$X \cdot 0.04 \cdot \frac{40}{X} \cdot X$

$X = \frac{40}{.04}$

Write ONLY answers below this line _____

GRSSet65

a: 4

b: 998.81