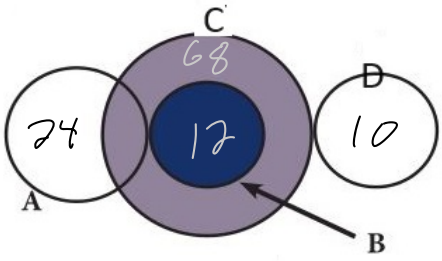
Name: Jai Padhya

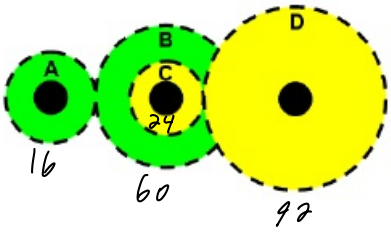
For the system of gears pictured, when gear A = 24 teeth, gear B = 12 teeth, gear C = 68 teeth, and gear D = 10 teeth, and the input speed is 94 rpm, what is the output speed (precision of 0.01)?



$$\frac{12}{24} \cdot \frac{10}{68} = \frac{120}{1632} = 0.0735$$

$$\frac{94}{0.0735} = 1278.4$$

For the system of gears pictured, when gear A = 16 teeth, gear B = 60 teeth, gear C = 24 teeth, and gear D = 92 teeth, and the input speed is 90 rpm, what is the output speed (precision of 0.01)?



$$\frac{60}{16} \cdot \frac{92}{24} = 14.375$$

$$\frac{90}{14.375} = 6.26 \text{ rpm}$$

Write ONLY answers below this line _____

GRSSet59

a: 1278.40

b: 6.26