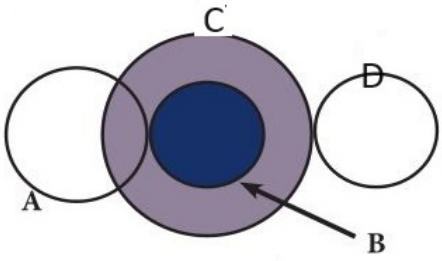
Name: Rhyan Bullard

For the system of gears pictured, when gear A = 56 teeth, gear B = 12 teeth, gear C = 66 teeth, and gear D = 32 teeth, and the input speed is 92 rpm, what is the output speed (precision of 0.01)?



$\frac{92}{x}$

$\frac{GB}{GA} = \frac{12}{56} = \frac{3}{14}$

$\frac{GD}{GC} = \frac{32}{66} = \frac{16}{33}$

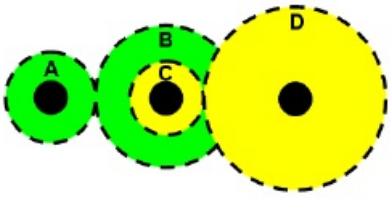
$\frac{3}{14} \cdot \frac{16}{33_{11}} = \frac{16}{154}$

$\frac{16}{154} = \frac{92}{x}$

$16x = 14168$

$x = 885.50$

For the system of gears pictured, when gear A = 10 teeth, gear B = 70 teeth, gear C = 34 teeth, and gear D = 76 teeth, and the input speed is 86 rpm, what is the output speed (precision of 0.01)?



$\frac{86}{x}$

$\frac{70}{10} = \frac{7}{1}$

$\frac{76}{34} = \frac{38}{17}$

$\frac{7}{1} \cdot \frac{38}{17} = \frac{266}{17}$

$\frac{266}{17} = \frac{86}{x}$

$266x = 1462$

$x = 5.50$

Write ONLY answers below this line _____

GRSSet52

a: 885.50

b: 5.50