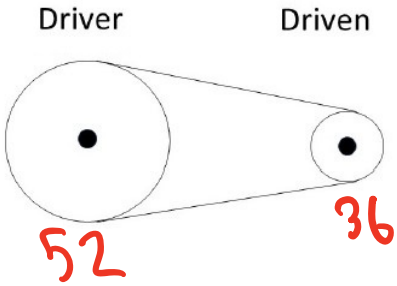
Name:_____

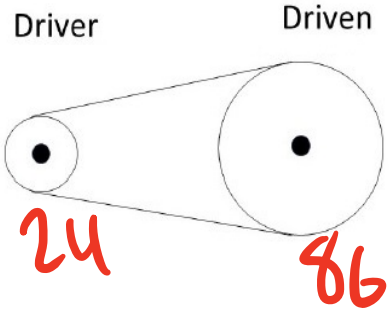
For the system of sprockets pictured, when driver sprocket = 52 cm, driven sprocket = 36 cm, and the output torque is 50 N-m, what is the input torque (precision of 0.01)?



$\frac{36}{52} = \frac{50}{x}$

72.22 N-m

For the system of sprockets pictured, when driver sprocket = 24 cm, driven sprocket = 86 cm, and the output torque is 98 N-m, what is the input torque (precision of 0.01)?



$\frac{86}{24} = \frac{98}{x}$

27.35 N-m

Write ONLY answers below this line _____

SPRSet18

a:72.22

b:27.35