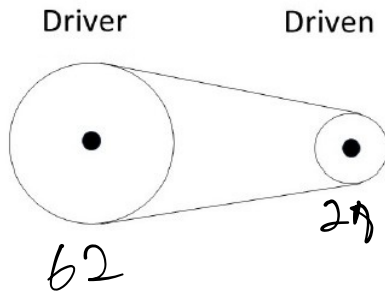Name: Stefan

For the system of sprockets pictured, when driver sprocket = 62 cm, driven sprocket = 28 cm, and the input speed is 54 rpm, what is the output speed (precision of 0.01)?

Driver   Driven

62   28

gr ratio × Speed

$2.21 \times 54 = 119.57$

$$\frac{driver}{driven} = \frac{62}{28} = 2.21$$

For the system of sprockets pictured, when driver sprocket = 24 cm, driven sprocket = 58 cm, and the input speed is 48 rpm, what is the output speed (precision of 0.01)?
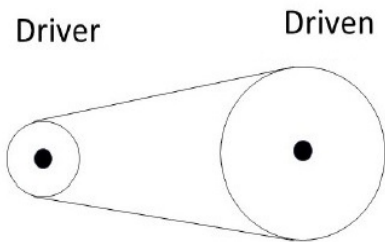
Driver   Driven

$$\frac{24}{58} = .41$$

$.41 \times 48$

$= 19.86$

Write ONLY answers below this line _____

SPRSet65

a: 119.57

b: 19.86