Online Homework System

Assignment Worksheet
6/1/22 - 7:54:00 PM MDT

Name: _____ **Class:**
Class #: _____ **Section #:** _____
Instructor: Parker Schnepf **Assignment:** 1.1 Homework Exercises

Question 1: (10 points)

Convert each of the following to three significant digits:

a). 50 lb · ft to N · m ...(ans = 67.8 $N{\cdot}m$)

b). 350 lb / ft^3 to kN / m^3 ...(ans = 55 kN / m^3)

c). 100 ft / h to mm / s ...(ans = 8.47 mm / s)

Select problem completion status from drop-down list:

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Question 2: (10 points)

If the density (mass/volume) of a material is 6.25 $slug / ft^3$, find its density in SI units:

(ans = 3.22 Mg / m^3)

Select problem completion status from drop-down list:

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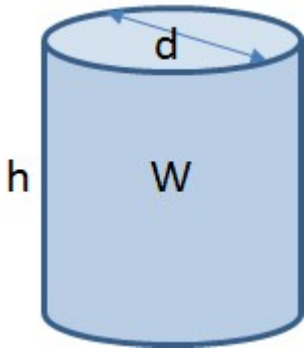
Question 3: (10 points)



Find the weight of the concrete column in *lbs*, given:

h = 1.5 *m*, **d** = 450 *mm*, **ρ** = 2.1 Mg/m^3

*(ans: **W** = 1,100 lbs)*

Select problem completion status from drop-down list:

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