

**SOLUTIONS**  
**THERMODYNAMICS PRACTICE PROBLEMS FOR NON-TECHNICAL MAJORS**

**Thermodynamic Properties**

1. If an object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter?

$$g_{\text{Jupiter}} = 75 \frac{\text{ft}}{\text{sec}^2} \quad g_{\text{Moon}} = 5.4 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbf-ft}}{\text{lbf-sec}^2}$$

$$|W| = \frac{mg}{g_c} \Rightarrow m = \frac{|W|_{\text{Moon}} g_c}{g_{\text{Moon}}} = \frac{10 \times 32}{5.4} = 59.26 \text{ lbfm}$$

$$|W|_{\text{Jupiter}} = \frac{mg_{\text{Jupiter}}}{g_c} = \frac{59.26 \times 75}{32} = \boxed{139 \text{ lbf}}$$

2. An object that weighs 50 lbf on earth is moved to Saturn where its new weight is 105 lbf. What is the acceleration due to gravity on Saturn?

$$g_{\text{Earth}} = 32 \frac{\text{ft}}{\text{sec}^2} \quad g_c = 32 \frac{\text{lbf-ft}}{\text{lbf-sec}^2}$$

50 lbf on earth  $\Rightarrow$  50 lbfm

$$|W| = \frac{mg}{g_c} \Rightarrow g = \frac{|W| g_c}{m} = \frac{105 \times 32}{50} = \boxed{67.2 \frac{\text{ft}}{\text{sec}^2}}$$

3. Define, using equations, specific volume ( $v$ ) and density ( $\rho$ ). What is the mathematical relationship between these two terms?

$$v = \frac{V}{m}, \quad \rho = \frac{m}{V}, \quad v = \frac{1}{\rho} \text{ or } \rho = \frac{1}{v}$$

**Temperature and Pressure Measurements**

4. (a) Define temperature.  
(b) What is the absolute temperature scale corresponding to Fahrenheit?  
(c) Convert 100° F to that absolute scale.

(a) Temperature: a measure of molecular activity of a substance.

(b) Rankine

(c) °R = °F + 460  $\Rightarrow$  100° F converts to 560° R

# Thermodynamics Problems With Solutions Download

**IM Harris**



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web feb 10 2022 on we were trying to answer for this lab is w s the percent copper of a post 1983 1959 to 1982 copper made up 95 of pennies while tin and zinc made up the remaining 5 however since copper became more expensive the united states treasury took t sion to alter the pennies

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web in this activity you ll experience surface tension and cohesion by testing how many drops of water you can you fit on a penny you might be surprised considering pennies are so small there s only one way to find out

*gold penny lab flashcards quizlet* - Feb 24 2023

web what was the purpose of the penny lab observe how properties of a metal can change how will copper be changed in terms of its properties by heating the copper with zinc in the presence of a sodium hydroxide naoh solution the zinc replaces the copper in the naoh solution then the zinc diffuses into the copper when heated zinc naoh

**drops on a penny lab little bins for little hands** - May 30 2023

web oct 3 2023 penny lab experiment let s investigate how many drops of water can fit on a penny grab your purse turn over the couch cushions or break out the piggy bank it s time to find some pennies to experiment with supplies pennies eyedropper or pipette water food coloring makes seeing this in action much easier but is optional small bowls

**take a guess science spot** - Jun 30 2023

web 1 explain your results from both parts of the experiment in terms of cohesion and surface tension 2 how do your results compare to the other groups in your class provide at least 2 possible reasons for any similarities and differences you identified drops on a penny teacher notes materials

**penny lab review flashcards quizlet** - Sep 02 2023

web study with quizlet and memorize flashcards containing terms like observations of part 1 observations of part 2 what caused the penny to turned silver was it a chemical or physical change and more

[penny lab soap and surface tension the biology corner](#) - Jan 26 2023

web jun 22 2018 use pennies soap and a pipette to conduct a lab on the surface tension of water this lab is intended to reinforce the principles of the scientific method developing a hypothesis testing a hypothesis and analyzing data

**penny lab answer key a docest** - Aug 01 2023

web penny lab answer key a 7th grade environmental science 1 the independent variable in this experiment was the side of

the penny 2 the dependent variable in this experiment was the number of drops on a penny 3 surface tension is what makes water dome on the penny