

Penny Lab at home

Name: _____ partner: _____

The United States penny has been made of 95% copper from 1980 - 1982. However, the price of copper had risen so much that the U.S. Treasury decided to change the penny's intended alloy. Hence, it was intended that the composition of the penny, for all 1983 pennies have been made of mostly zinc, with a thin copper layer on the outside. In this lab, you will determine the % zinc and % copper in a penny. To do this you will take advantage of the activity series of metals, and perform a single replacement reaction on the penny.

Procedure

1. Obtain a clean, unscratched penny (post 1982, the newer the better). You and your lab partner will each need different years so you can tell them apart! Record the years in the data table.
2. Using a file, carefully scratch the edge of your penny in two places, until the zinc core is showing.
3. Weigh each penny. Record the mass.
4. Place each penny in a beaker with ca. 50 mL of HCl. Label the beaker with your names. Remove the bubbling around the filed area. Set beaker aside in designated area.

— Day Two —

5. Decant HCl and rinse penny w/ water. Carefully remove penny & dry w/ paper towel.
6. Once dry, weigh copper shell and record mass.

Calculations / Questions

1. How much zinc was lost in penny 1? _____ g (mass - mass)

2. How much zinc was lost in penny 2? _____ g (mass - mass)

3. What is the % Zn in penny 1?

4. What is the % Zn in penny 2?

5. What is the average % Zn?

6. The actual % Zn in pennies is 27.45. Calculate % error. (actual - experimental) / actual x 100

7. Write the complete, balanced equation for the chemical reaction you did.

8. Assuming the average penny contains 2.50 g zinc, how much HCl is required to react the all of the zinc, without leaving any EXCESS HCl? (hint: look at stoichiometry section, w/ your teacher's advice before equation work up)

to find →  ← to find

	Penny 1	Penny 2
Your Name:		
Penny Year:		
Initial Mass (g)		
Final Mass (g)		

Analysis Of A Penny Lab Answer Key

**Society of Petroleum Engineers (U.S.).
Technical Conference and Exhibition**

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Chemistry and Society Michael E Green, 2019 *Floating Breakwaters* Permanent International Association of Navigation Congresses. Permanent Technical Committee II. Working Group 13, 1994 *Wind Energy 1975-1985* Penny Farmer, 2012-12-06 **Holt Science and Technology** Holt Rinehart & Winston, 2004 Proceedings of the Section on Statistical Education American Statistical Association. Section on Statistical Education, 1993 Papers presented at the annual meeting of the American Statistical Association **The Jericho Flower** Stephen F. Wilcox, 2002-01-31 Returning for his fourth misadventure small town newspaperman and social gadfly Elias Hackshaw finds himself immersed in a mystery involving a dead con man and a missing gypsy princess with the improbable name of Bimbo Wanka Through no fault of his own well almost none Hack becomes a suspect in the case when the cops mistakenly conclude that he was an acquaintance of the murdered con artist Meanwhile Bimbo s parents turn up on Hack s doorstep demanding he turn over their missing daughter or face a gypsy curse To add to the mayhem a local industrialist is badgering Hackshaw to oversee a major renovation to his monstrosity of a house and Hack s sister Ruth is hectoring him to forget everything else and see to his duties as editor of The Triton Advertiser Trapped by circumstance Hack begins poking into things and soon discovers a circus assortment of off beat characters gypsies in cowboy hats a con man with a conscience a sheriff s investigator without a heart or a brain ham fistied townies and much much more Only a strong survival instinct and his usual portion of dumb luck can save Hackshaw this time around Wilcox spins an entertaining yarn of murder and mayhem With a credible plot and eccentric characters that adroitly avoid being mere caricatures Wilcox offers a semi cozy mystery uncloying clever and far from brutal Publishers Weekly Wilcox is an absolutely first rate writer The Jericho Flower is a well crafted imaginative tale that this reader wished could go on for much longer It s a great read Midwest Book Review The Jericho Flower is a surprising deep amusing and character driven mystery that will keep you on your toes It s a mystery that keeps you hanging until the very end an unlikely hero who will keep you laughing and a full range of characters that opens you up to small town life a most involved and amusing mystery from this very talented author All About Murder Examination Review for Ultrasound: Sonographic Principles & Instrumentation Traci B Fox, Stephen M Penny, 2024-09-05 Prepare for and excel on the Sonography Principles and Instrumentation SPI certification examination offered by the ARDMS Traci B Fox and Steven M Penny s Examination Review for Ultrasound Sonographic Principles Instrumentation 3rd Edition focuses only on the content you ll encounter on the exam saving you valuable study time Now in full color throughout it uses a concise narrative approach aligns with the SPI revised content outline and format and features an online exam simulator with hundreds of registry style questions Marketing Practices in the Gasoline Industry United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly, 1971 **Pressure Vessels and Piping** S. Y. Zamrik, David Dietrich, 1982 *Numerical Methods in Thermal Problems* Roland Wynne Lewis, Kenneth Morgan, 1985 *Numerical*

Methods in Thermal Problems ,1985

Using Multimedia Technology in Chemistry Pre-laboratory Preparation

Jeffrey Glen Yoder,2002

Cold Case Homicides R.H. Walton,2006-06-13 Written by a seasoned professional with over 30

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McGraw-Hill Education,1996-08

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premier public resource on scientific and technological developments that impact global security Founded by Manhattan

Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

Welding Research

Council Bulletin Series Welding Research Council (U.S.),1979

Final Deadline: Foul Play without a Clue Moses

Kery,2012-03-26 A locked door a dead body A millionaire industrialist dies under suspicious circumstances by an overdose of a prescription medication But there is one peculiar circumstance The victim had contacted his attorney to change his will only days before his demise making the death all the more suspicious Could someone have murdered the man to keep him from rewriting his will Or was the death a suicide or even perhaps an accidental overdose Whodunit Certainly not the butler But only the reader can tell Each ending reflects an alternate reality in which different choices and character dynamics lead to different conclusions of the story Find your favorite ending for only the reader can decide if it was murder suicide an

accident or something else Each twist and turn in the investigation by the detective brings a different conclusion to the story The ten unique alternate endings allow the reader to choose their own favorite solution to the mystery ten novels in one book

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web some detroit heavy duty gen 5 dd15 engines are experiencing exhaust valve bridges that fall out of position or have excessive valve lash the engine may experience conditions such as ticking rough running misfire or popping out sounds from the intake the following fault codes have been associated with this failure and may also be present

dd15 troubleshooting section 52 3 spn 625 fmi 9 detroit - May 12 2023

web jun 8 2019 start and bring engine up to operating temperature over 140 f 60 c verify operation is satisfactory and no warning lamps illuminate if warning lamps illuminate troubleshoot the codes if assistance is required call the detroit diesel customer support center at 313 592 5800

dd15 troubleshooting section 22 3 spn 91 fmi 4 detroit - Apr 11 2023

web jun 8 2019 clear codes with dddl 7 0 or latest version start and bring engine up to operating temperature over 140 f 60 c verify operation is satisfactory and no warning lamps illuminate if warning lamps illuminate troubleshoot the codes if assistance is required call the detroit diesel customer support center at 313 592 5800

dd15 troubleshooting section 111 2 spn 3510 fmi 4 detroit - Jan 08 2023

web jun 8 2019 section 111 2 1 verify repairs verify repairs as follows turn ignition off reconnect any electrical connections that were disconnected to perform the diagnosis clear codes with dddl 7 0 or latest version start and bring engine up to operating temperature over 140 f 60 c verify operation is satisfactory and no warning lamps

157 fuel rail pressure too low dd15 troubleshooting - Apr 30 2022

web the motor control module mcm monitors the rail pressure and when rail pressure deviation is greater than 200 bar for eight seconds the mcm sets the code this fault can occur due to the conditions listed below external fuel leakage between the high pressure pump and fuel injectors pressure limiting valve leakage internal

dd15 troubleshooting section 73 3 spn 723 fmi 8 detroit - Feb 09 2023

web jun 8 2019 start and bring engine up to operating temperature over 140 f 60 c verify operation is satisfactory and no warning lamps illuminate if warning lamps illuminate troubleshoot the codes if assistance is required call the detroit diesel customer support center at 313 592 5800

dd15 ghg14 cpc4 fault codes troublecodes net - Jun 01 2022

web j1939 powertrain message amt detroit transmission is missing 1121 13 j1939 service brake switch signal from ebc1 is missing or not available 1121 19 j1939 service brake switch signal from ebc1 is erratic 1237 4 stop engine override switch short circuit to ground 1243 14 abs fault restricts automatic gear selection functionality