Printed by: jmart612@ucr.edu. Printing is for personal, private use only. No part of this book may be reproduced or transmitted without publisher's prior permission. Violators will be prosecuted.

	K		0.1
haven M. A.			
	1 artinez		\$9.X12
	' ∽		
- 1	Name	Jaqueline Martinez Name 1:00pm	Jaqueline Martinez

Density of Unknown Metal

Temperature of water: 29 °C

Density of water: (1.9960 g/cm)

	Trial 1	Trial 2	Trial 3	Trial 4	
Mass of empty flask + stopper	29.491g	29.489 B	29.488 g	29.489g	
Mass of stoppered flask + water (to fill the flask)	61.298g	61.293 g	61.281 g	61.281 g	
Mass of water (to fill the flask)	31.807 g	31.794g	21.793 g	31.792 g	
Internal volume of flask (see Appendix H)	31,935cm3	31.922cm3	31.921 cm3	31.920cm3	-mass: dansity
Mass of metal	26.949 g	20.949g	20.9498	20.949 g	
Mass of stoppered flask + metal + water	77.610 g	77.604 g	77.5998	77.600 g	
Mass of water (surrounding the metal)	27.176 g	27.166 g	27.162 g	27.162 g	→ total mass-mutal mass- mass of flask
Volume of water (surrounding the metal)	27.279cm3	27.275cm³	27.271 cm3	27 271 cm ³	-> mass = density
Volume of metal	4.656cm3	4.647 cm3	4.65 cm ³	4.649 cm3	→ volume of flask -
	The American State of the Control of			4.	" VOIVML OF WOHER

Printed by: jmart612@ucr.edu. Printing is for personal, private use only. No part of this book many

					26 🛍
DENSITY OF METAL	4.499 g/cm3	4509 g/cm3	4.50 g/cm³	4.506 g/cm3	Printed 22 pm
			4.505	heads.	Volume

Printed by: jmart612@ucr.edu. Printing is for personal, private use only. No part of this book may be reproduced or transmitted without publisher's prior permission. Violators will be prosecuted.

■ Measurements II: Density of a Solid

	Trial 1	Trial 2	Trial 3	Trial 4
AVERAGE DENSITY OF METAL	4.504 g/cm3			
STANDARD DEVIATION	6.003 g/cm			
Sample number	6			
Proposed identity of metal (chemical symbol and name)	Titahi	m		

Show your calculations below.

$$\sqrt{\frac{(D_1 - \bar{D})^2 + (D_2 - \bar{D})^2 + (D_3 - \bar{D})^2}{3}}$$

overage density b+ that It 2 + 4

(4.499-4.504)+(4.508-4.504)2+(4.506-4.504)2

mean by 1 soll

Q660025 + 6.600014+ 6.606004

Metal density: 4.501

9.005

6.003354

4.504 - Semation of acco