Colby Chavez

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C++ PROGRAMMING I (T02)

9/19/2023

ChavezP2 test cases

Weight of lead: 0.41 lbs per cubic inch

https://www.inchcalculator.com/metal-weight-calculator/

Weight of gold: 0.698 lbs per cubic inch

https://www.inchcalculator.com/metal-weight-calculator/

Weight of silver 0.379 lbs per cubic inch

<https://www.inchcalculator.com/metal-weight-calculator/>

Weight of aluminum 0.1 lbs per cubic inch

<https://www.inchcalculator.com/metal-weight-calculator/>

1) a lead cylinder has an overall length of 12.2 inches, with a diameter of 3 inches.

35.36 =(( 3.14159\*1.5\*1.5\*12.2) 0.41)

The lead cylinder weighs 35.36 pounds and is 86.24 cubic inches in volume.

2) a gold cylinder of 9 inches with a diameter of 1.5 inch.

11.10 =(( 3.14159\*.75\*.75\*9) 0.698)

The gold cylinder weighs 11.10 pounds and is 15.90 cubic inches in volume.

3) a silver cylinder with an overall length of 18 inches and a diameter of 2 inches.

X=(( 3.14159\*1\*1\*18) 0.379)

The silver cylinder weighs 21.43 pounds and is 56.55 cubic inches in volume.