

One Pound of Pennies: The Correlation Between the Mean Value of Pennies and the Skew of the Year of Mint
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Question


What is the estimate of the correlation between the mean value of one pound of pennies and the skew of the year of mint?

Hint

Table 1 below indicates the weight of a penny depends on the year of mint.

Table 1

**How Many Pennies are in a Pound?
Types, Metals, Weights**

Varieties of 1982 U.S. "Pennies"		Wheat Back	Weight New	The Number of Pennies in a Pound & Metal Composition
 <p>*1982 "Pennies" or U.S. cents, can be copper or zinc. (Click image for a close-up)</p> <p>A good way to be sure if a 1982 penny / cent is copper or zinc is to weigh it. Zinc is much lighter. Collectors can use most any scale from a simple "teeter-totter" style balance scale made from Popsicle sticks to a top-of-the line electronic scale. All work fine. If you have a keen ear you can drop the pennies on a table top and tell them apart by the sound. High ring for copper cents and a dull ring for zincs. Also, a sharp eye can sometimes spot copper and zincs by a slight color difference.</p> <p>The Future of the US Penny... Steel Cents and Steel Nickels?</p> <p>Steel cents or "pennies" may return... Maybe steel nickels too! Read H.R. 5512: Coin Modernization - Taxpayer Savings Act of 2008, The Coin Modernization, Oversight, and Continuity Act of 2010 and Canada's 2012 decision to end penny production. View Senator Ron Paul's April 2012 hearing on the subject of the future of the penny. (Video will open in new window.) HR3693 US Cent & HR3694 US Nickel</p>		1909-1942	3.11 grams	Copper cents 95.0% copper, Tin and Zinc 5.0% -A top choice for pressing. ~145 per pound
		1943	2.70 grams	Steel cents coated with zinc - Can be hard on penny press dies. Very hard, tendency to press short. Weighs less than copper! ~168 per pound
		1944 - 1946	3.11 grams	Copper / brass cents copper 95.0%, Zinc 5.0% -Shell casings added a "brass" color. Nice for the Advanced elongated collector. ~145 per pound
		1947 - 1958	3.11 grams	Copper cents copper 95.0%, Tin and Zinc 5.0% - A top choice for pressing. ~145 per pound
		Memorial Back	Weight New	The Number of Pennies in a Pound & Metal Composition
1959 - 1962	3.11 grams	Copper cents copper 95.0% Tin and Zinc 5.0% -A very good choice for pressing. ~145 per pound		
1962 - 1982*	3.11 grams	Copper cents copper 95.0% Zinc 5.0% -A very good choice for pressing. ~145 per pound		
1982* - 2008+	2.5 grams	Zinc core is zinc 99.2% copper plated surface makes up about .8%. -May show "silver" streaks of zinc when pressed. ~181 per pound		
The Future		Steel US cents again?		

