

2 Physics and Measurement

(b) The best-fit curve passes through 0.20 g, so the percentage difference is

$$\left(\frac{0.015 \text{ g}}{0.20 \text{ g}} \right) \times 100 = 7.5\%$$

(c) The best-fit curve passes through the origin and the point (600 cm², 0.32 g). Therefore, the slope of the best-fit curve is

$$\text{slope} = \frac{0.32 \text{ g} - 0}{600 \text{ cm}^2 - 0} = 5.3 \times 10^{-4} \text{ g/cm}^2 = 5.3 \text{ g/m}^2$$

(d) For shapes cut from this copy paper, the mass of the cutout is proportional to its area: $m = aA$. The proportionality constant a is 5.3 g/m².

(e) This result is to be expected if the paper has thickness and density that are uniform within the experimental uncertainty.

(f) The slope is the areal density of the paper, its mass per unit area.]

Answers: Answers will vary, depending on how the graph is read

***TP1.2** *Answer:* All results should be close to 2.54, representing the conversion factor 2.54 cm/in.

***TP1.3** *Solution:* The difference is due to the average density, which is related to the composition of the penny. Before 1982, U.S. pennies were 95% copper and 5% zinc. After that date, they are 97.5% zinc, with a coating of 2.5% copper. Both copper and zinc pennies were produced in 1982. Perhaps a measurement of the mass of a sample of 1982 pennies would be interesting.

Answer: Pre-1982 pennies have an average mass of 3.1 g, while post-1982 pennies have a lower average mass of 2.5 g

Modern Physics Serway Solution Manual

Raymond A. Serway, John W. Jewett



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