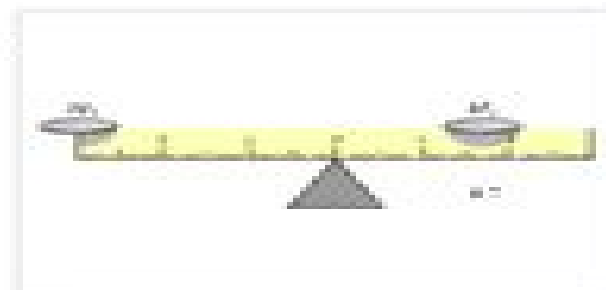


a. Torqued on a Ruler

A centimeter ruler, suspended at its center point, has two coins placed on it, as shown in the figure. One coin, of mass $M_1 = 50\text{ g}$, is placed at the zero mark; the other, of unknown mass M_2 , is placed at the 4.7 cm mark. That center-of-mass rule is at the 2.0 cm mark. The ruler is in equilibrium; it is perfectly balanced.



Part A

Does the pivot point (i.e., the triangle in the diagram upon which the ruler balances) exert a force on the ruler? Does it exert a nonzero torque about the pivot?

Choose the correct values of answers for these two questions.

ANSWER:

- ☐ neither
☐ neither
☒ neither
☐ neither

Correct

Note that the weight of the ruler itself also does not exert a torque with respect to the pivot point since the ruler is uniform and is pivoted at its midpoint.

Part B

Although the pivot exerts a force on the ruler it does not exert a torque with respect to the pivot point. Why not?

ANSWER:

- ☐ Because the exerted force is vertical
☒ Because the distance from the exerted force to the pivot is zero
☐ Because the exerted force is along the ruler

Correct

Part C

Find the mass M_2 .

Express your answer for the unknown mass numerically, in grams, to two significant digits.

Chapter 7 Mastering Physics Answers

Sasha Hu



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Science and Philosophy Alain Stahl, 2012 The rapid progress of science is shedding new light on the eternal questions of philosophy Alain Stahl provides an exhaustive and coherent examination of the big questions that physics and the life sciences raise today This book is a translation of the second French edition 2010 updated and expanded to include the most recent scientific findings It will be of interest to anyone studying working in or thinking about science and philosophy The author Dr Alain Stahl a scientist by training spent his outstanding professional career working as a chief technical officer and then managing director of several large French chemical companies After retiring he has focused his efforts on integrating insights from scientific and philosophical advances and the present volume is the culmination of this synthesis

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