

## Quiz & Worksheet - Center of Gravity

1.

A 100 lb see-saw has a center of gravity above the fulcrum, the triangular piece in the center. Joe (Mass 1) weighs 90 lbs and sits 80 inches to the left of the fulcrum. Cindy (Mass 2), who weighs 75 lbs, sits on the right. How far from the fulcrum does Cindy need to sit so that Mass 1 and Mass 2 are balanced with respect to the fulcrum?

Hint: treat distance to the left of the fulcrum as negative

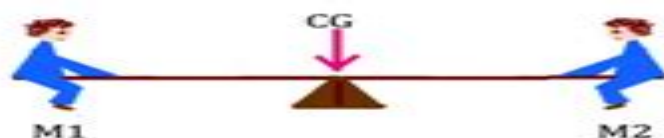


- ☐ 80 inches
- ☐ 96 inches
- ☐ 100 inches
- ☐ Not enough information

2.

Mark (Mass 1) who weighs 140 pounds sits on a seesaw weighing 110 pounds at a distance of 60 inches from the fulcrum (the center of gravity of the seesaw). Lucy (Mass 2) sits at a distance of 80 inches to the right of the fulcrum in order to keep the seesaw in balance. How much does Lucy weigh?

Hint: treat distance to the left of the fulcrum as negative



- ☐ 105 pounds
- ☐ 140 pounds
- ☐ 100 pounds
- ☐ Not enough information

3. Select the correct definition for center of gravity

- ☐ The point at which an object will balance on a fine or sharp edge
- ☐ The point at which all sides of an object are in balance
- ☐ The point at which weight is evenly distributed
- ☐ All of the above

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# Center Of Gravity Study Guide

**Morton M. Sternheim**



## Center Of Gravity Study Guide:

**Student Study Guide and Solutions Manual for General Physics** Morton M. Sternheim, 1986      Private Pilot FAA Practical Test Study Guide Jeppesen Staff, 2003 This study guide carefully parallels the FAA Areas of Operations and Tasks in the Private Pilot Practical Test Standards Provides key questions answers explanations and references Designed to coordinate with the knowledge and task portions of the PTS Includes a copy of the FAA Private Single Engine Land Sea PTS

Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway Raymond A. Serway, Steven Van Wyk, 1996      **Fundamentals of Physics, Study Guide** Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters      Mechanical Tightening Louis E. Noble, Joseph A. Roenigk, 1929

**Study Guide and Review Manual of Basic Human Anatomy and Physiology** Maurice Henry Lindsay Gibson, 1978  
*Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers* John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions      The Study Guide to Accompany University Physics, Alvin Hudson and Rex Nelson Kenneth E. Jesse, 1982      **Illinois Commercial Drivers License Study Guide**, 1995

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The Biblical World William Rainey Harper, Ernest DeWitt Burton, Shailer Mathews, 1904 Books for New Testament study By Clyde Weber Votaw v 26 p 271 320 v 37 p 289 352      Railway and Engineering Review, 1926      Theory of Social

Organization Charles Fourier, 1876      *E-I-T Review* Virgil Moring Faires, Joy O. Richardson, 1987      *Manual of Astronomy*  
Robert William Shaw, Samuel Latimer Boothroyd, 1902

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