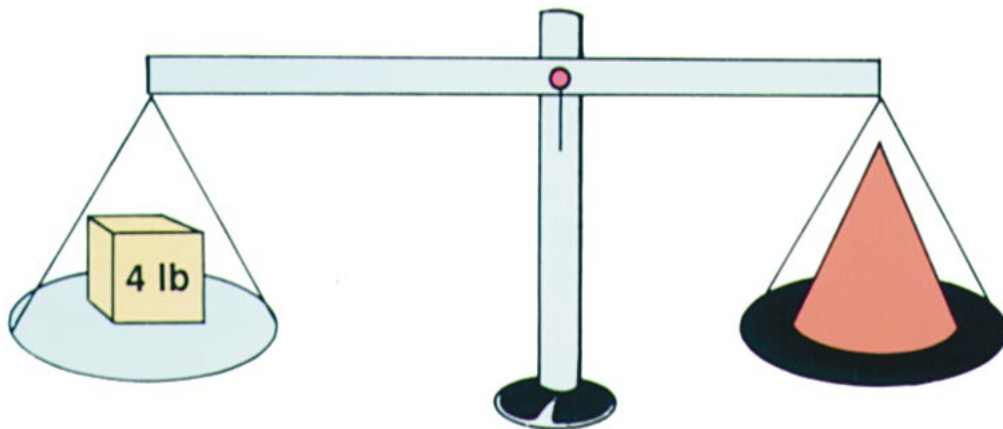
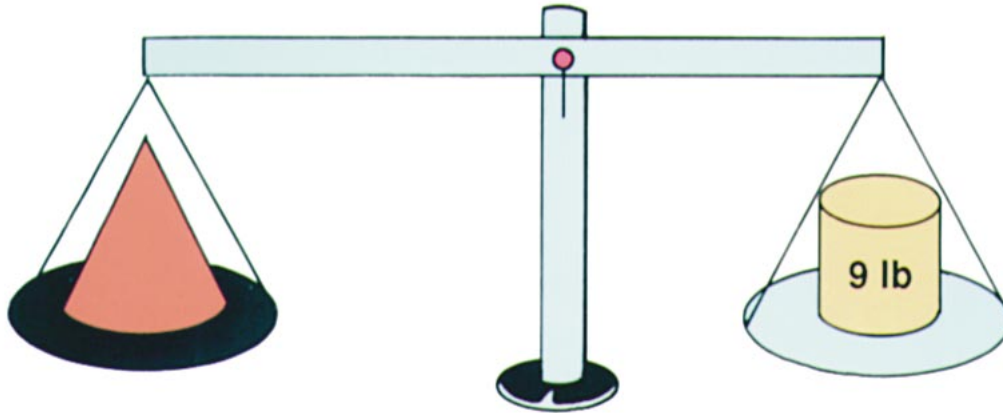


The Unknown Weight

Problem-of-the-Week

The Problem

Find the weight of the cone.



Strategies and Hints

1. Explain why the weight of the cone is not equal to 9 lb or 4 lb. Compare the weights of the three objects.
2. You will need a formula called *The Principle of Moments*. Find this formula in a reference book.
3. Assume that you did not know the weights of the cylinder and the cube. Find a general formula for the weight of the cone in terms of the other two objects.
4. What weights in the problem are not in the formula?