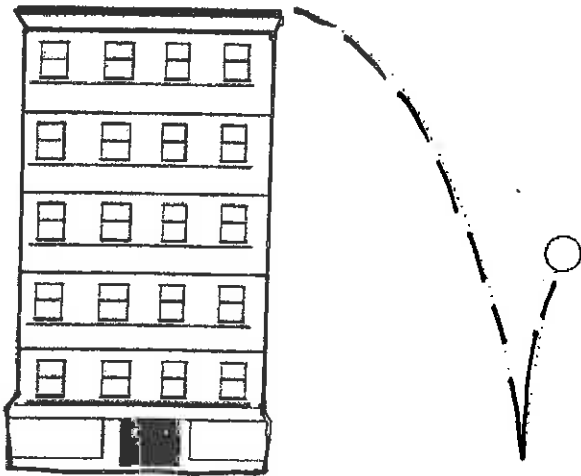


POW #4

I'VE GOT IT

A rubber ball bounces exactly half the height from which it is dropped. The ball is dropped from the top of an office building that is 64 feet tall. How high will the ball bounce on its eighth bounce?



POW Guidelines

1. Complete heading

2. Problem Statement.

In your own words, tell what you are asked to do—include the essential details and the question.

3. Process.

Show all your work. Refer to the problem to give reasons for each step. Write enough (several paragraphs) to show that you really tried to solve the problem.

4. Solution.

Write your answer in a sentence which refers to the problem. Explain why your answer makes sense. Show a check if you can.

5. Evaluation.

Write complete sentences to answer these questions:

- How do you feel about this POW? Why?
- Did anyone help you?
- Does this remind you of any other problem?
- Tell one thing you learned.
- What rubric score should you get? Why?

EXTENSIONS. (Extensions are optional) If the POW is easy for you, try the extensions. Write a paragraph for each—the extensions do not require 4-part write-ups.

FIRST EXTENSION: If the ball is dropped from the top of a house that is 16 feet high, how much difference would there be between the eighth bounces in each case?

SECOND EXTENSION: Make up a problem about a bouncing ball.