

Problem Solving Test Prep

- 1 Henry, Jamie, and Sam are three friends. Their ages are consecutive numbers. The product of their ages is 2,145 more than the sum of their ages. Sam is the oldest. How old is Sam?
- A. 12
B. 13
C. 14
D. 15
- 2 The surface area of a cube is 150 square inches. What is the volume of the cube?
- A. 150 cubic inches
B. 125 cubic inches
C. 100 cubic inches
D. 75 cubic inches

Show What You Know

Solve each problem. Explain your answer.

- 3 Darla has a square beach towel that measures 96 inches on each side. She folds it in half, then folds it in half again, and finally folds it in half again. What is the area that the folded towel would cover? Explain how you solved the problem.

- 4 Students in the architecture club are using cubes to build a model of an apartment house. Each cube represents one room. Every outside wall of a cube will have one window. If the students use 27 cubes, what is the least number of windows that is possible? What is the greatest? Explain how you solved the problem.
