

Problem Solving Test Prep

Choose the correct answer.

1 Samantha glues 8 cubes together to make a larger cube and paints the outside. When she takes the large cube apart, how many of the original 8 cubes will have exactly 3 faces painted?

- A. 0
- B. 2
- C. 4
- D. 8

2 In a board game, Tim begins at 0. He moves forward 3 spaces and back 1. If he makes that move a total of 12 times, how many spaces will he have advanced after the 12 moves?

- A. 6
- B. 8
- C. 9
- D. 24

Show What You Know

Solve each problem. Explain your answer.

3 Jenny brought 36 pieces of fruit to class. Of the 36 pieces of fruit, $\frac{1}{3}$ are oranges, $\frac{1}{3}$ are apples, and the rest are bananas. At the end of the school day, there are 5 bananas. How many bananas were eaten? Explain how you solved the problem.

4 Four girls compare their heights. Only one girl is shorter than Abby. Halley is shorter than Ellen. Jesse is shorter than Halley. From this information, can the girls be put in order from shortest to tallest? If so, explain your solution. If not, explain what other information you would need.
