

# Problem Solving Test Prep

Choose the correct answer.

- 1 There are 96 members of the Lincoln School marching band. Which of the following arrangements will not include all of the band members?
  - A. 8 rows of 12
  - B. 7 rows of 12 and 2 rows of 6
  - C. 5 rows of 15 and 1 row of 12
  - D. 3 rows of 16 and 6 rows of 8
- 2 Each of 8 students is standing on one vertex of an 8-sided polygon. They are modeling a telephone network by connecting each person to every other person with strings. How many strings do they use in all?
  - A. 64
  - B. 56
  - C. 49
  - D. 28

## Show What You Know

Solve each problem. Explain your answer.

- 3 Rachel has 25 plants in her garden. She has a row of 6 tomato plants, a row of 14 carrots, and a row of 5 bean plants. The bean plants are in the back. The tomato plants are behind the carrots. Which plants are in the front? Explain how you know your answer is correct.
- 4 Mr. Yu's class is comparing the types of snacks they have in their backpacks. There are 20 students, and each student has at least one snack. Twelve of them have a piece of fruit, and 10 have some type of chips. How many students have both fruit and chips? Explain how you know your answer is correct.

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