

# Practice 1-5

## Problem Solving: Using a Problem-Solving Plan

Use the problem-solving plan to solve each problem.

1. What are two whole numbers whose product is 1,224 and whose sum is 70?  
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2. If it costs \$3.20 to make one cut on a log, how much would it cost to cut a log into 4 pieces?  
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3. At the fair, the chickens and the rabbits were placed under the same tent. The chickens and the rabbits have a total of 360 legs. If there were 105 animals, how many were rabbits?  
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4. There are 18 students standing in a circle, evenly spaced and consecutively numbered. Which student is directly opposite student 1?  
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5. In a soccer tournament, there are 22 entries. The tournament is single-match elimination; that is, two soccer teams compete at the same time, and the loser is eliminated. How many games will be played to determine the champion?  
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6. A license plate has a three-digit number printed on it. The product of the digits is 210, their sum is 18, and the numbers appear in descending order from left to right. What is the license plate number?  
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7. Two students started a phone club. It was decided that once a month each member would call every member of the club. They also decided to expand the club by adding one new member each month. How many phone calls would be made during the month in which the fifth member was added?  
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