## Student Guide

## Magic Squares (SG pp. 38-39) <br> Questions 1-5

I. A. 15
B. 15
C. 15
D. They are all the same.
2. A. 15
B. 15
C. The sum of each row, column, and main diagonal is 15 .
3.* 21
4.*A is a magic square. $B$ is not because the column sums are not the same. For example, the sum of the middle column is 15 , but the sum of the third column is 17 .
5. A.* 15
B. * Possible response: All of the numbers are odd. There are only three different numbers instead of nine.
C.* The middle number, 5 , is in the center of the square. The numbers in one of the diagonals are in order-3, 5, 7 .


Student Guide - Page 38

Use Strategies and Patterns

4. One of these squares is a magic square and one is not.

- Which one is a magic square?
- How do you know the other one is not a magic square?


5. Here is another magic square. Check the sum of each row, column, and diagonal. A. What is the sum?
B. How is this magic square different from the others you have done?
C. How is it similar?

Use the More Magic Squares pages in the Student Activity Book to solve more of these ancient math puzzles.
*Answers and/or discussion are included in the lesson.

