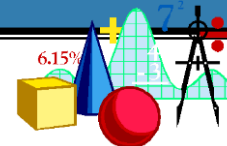


Mathematics, Grade 8
Unit IV: Lesson 1

Puzzle: **Magic Square Puzzle #1**



Magic squares are square arrays of numbers. Adding the numbers in each row, column and diagonal will result in the same sum.

Analyze at least three odd sized magic squares to discover a pattern. Use the pattern you observed and create a magic square using fractions. Create a second magic square using fractions, leaving several blanks for someone to solve.

Make copies of your magic square puzzle for the class. Explain the pattern used in making and solving the puzzle.

33 42 51 4 13 22 31 48 55 32 39 46 8 16

3 5 7 4 1

50 10 12 21 30 32 54 36 38 45 47 4 9 2

49 9 11 20 29 38 40 35 37 44 51 53

8 17 19 28 37 39 48 41 43 50 52 34

16 18 27 36 45 47 7 42 49 56 33 40

13 6 11

24 26 35 44 46 6 15

8 10 12

25 34 43 52 5 14 23

MAGIC
SQUARES

9 14 7