Mathematics, Grade 8 Unit IV: Lesson 3

## Puzzle: Even Sized Magic Squares

Odd-sized magic squares can be created by using a pattern. Even-sized magic squares are created by a somewhat more complex pattern. Research even-sized magic squares and analyze the pattern.

Create an even sized magic square using fractions. Make a second puzzle leaving some squares blank.
Give copies to your classmates to solve. Demonstrate how the pattern works.

| 1632 | 13 | 11213 | 8 | 712114 | 96154 |
| :--- | :--- | :---: | ---: | ---: | ---: |
| 51011 | 8 | 5163 | 10 | 213811 | 712114 |
| 96 | 7 | 12 | 496 | 15 | 163105 |
| 41514 | 1 | 147121 |  | 96154 | 16311 |

9611896888
6991166186
1899199866
81

