

Teacher's Notes for Activity Sheet 2

Since this activity involves rotations and reflections, a review of these transformations might be necessary. Review reflections across vertical, horizontal, and diagonal lines. It is also good to review what happens when points lie on the reflection line itself. Review rotations with a given center and angles of rotation equal to 90° , 180° and 270° .

When doing the transformations, you could model by just doing one entry from the square. It might be less confusing to just look at one entry in the magic square at a time too. This modeling could be done with overhead transparencies. Make one copy of the blank square and then each of the 9 smaller squares could be on one small piece of transparency so they can be moved to its new position (see also Magic Square Bingo Activity).

Answers:

1.

4	9	2
3	5	7
8	1	6

2.

2	9	4
7	5	3
6	1	8

3.

8	1	6
3	5	7
4	9	2

4.

4	3	8
9	5	1
2	7	6

5.

6	7	2
1	5	9
8	3	4

6.

6	1	8
7	5	3
2	9	4

7.

2	7	6
9	5	1
4	3	8

8.

8	3	4
1	5	9
6	7	2