

Patterns in the Addition Table

Materials: copies of addition table

1. Explore the addition table. What do you notice about:
 - the diagonals going up, from left to right?
 - the diagonals going down, from left to right?
2. Draw a square around any nine numbers in the table. What do you notice about the sum of the two diagonals and the sum of the middle three numbers vertically and horizontally?
3. Double the middle number in any square of nine numbers. Compare this sum to the sum of any pair of opposite corners in the square. What do you notice?

Patterns in the Addition Table

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18