

Fairfield GR 3

Investigating Sums of Odd and Even Numbers

1. Find the sums:

$1 + 7 = \underline{\quad\quad\quad}$

$5 + 3 = \underline{\quad\quad\quad}$

$9 + 5 = \underline{\quad\quad\quad}$

$7 + 3 = \underline{\quad\quad\quad}$

$3 + 9 = \underline{\quad\quad\quad}$

$9 + 7 = \underline{\quad\quad\quad}$

2. What do you notice about the numbers that you added in problem #1?
3. What do you notice about the sums that you found in problem #1? Do you think that this will be true even if the numbers that are being added are 2-digit odd numbers?

4. Find the sums:

$2 + 6 = \underline{\quad\quad\quad}$

$8 + 4 = \underline{\quad\quad\quad}$

$10 + 6 = \underline{\quad\quad\quad}$

$8 + 2 = \underline{\quad\quad\quad}$

$6 + 8 = \underline{\quad\quad\quad}$

$4 + 10 = \underline{\quad\quad\quad}$

5. What do you notice about the numbers that you added in problem #4?
6. What do you notice about the sums that you found in problem #4? Do you think that this will be true even if the numbers that are being added are both 2-digit even numbers?

7. Find the sums:

$2 + 7 = \underline{\hspace{2cm}}$

$3 + 4 = \underline{\hspace{2cm}}$

$9 + 6 = \underline{\hspace{2cm}}$

$8 + 3 = \underline{\hspace{2cm}}$

$6 + 7 = \underline{\hspace{2cm}}$

$4 + 9 = \underline{\hspace{2cm}}$

8. What do you notice about the numbers that you added in problem #7?

9. What do you notice about the sums that you found in problem #7?

10. Make three different conjectures (write complete sentences) describing the patterns that you found in questions 1-9.

a.

b.

c.