Algebraic Expressions Worksheet - 3

1. The price Mayank pays to visit the park is calculated according to the formula 20 + 50n. Here n is the number of times he visits it in a year. This time it was 4. What will be the amount spent on park's visit for this year?

2. Write the expression for: Twice the sum of length x and breadth y of a rectangle is the perimeter of a rectangle. Write the expression for perimeter.

3. What is the expression for the number of diagonals that we can make from one vertex of a n sided polygon?

4. The length of a side of a square is given as 3x + 5. Write the expression that represents the perimeter of the square.

5. If Reena has 5xy toffees and Shantanu has 20yx toffees, then Shantanu has how many more toffees than Reena.

6. Subtracting a term from a given expression is the same as adding its additive inverse to the given expression. True/False

7. A taxi service charges Rs. 12 per km and levies a fixed charge of Rs. 50. Write an algebraic expression for the above situation, if the taxi is hired for x km.

8. Sonu and Raj have to collect different kinds of leaves for a science project. They go to a park where Sonu collects 12 leaves and Raj collects x leaves. After some time Sonu loses 3 leaves and Raj collects 2x leaves. Write an algebraic expression to find the total number of leaves collected by both of them.

9. Write the expression for: Sum of the products of a and b, b and c and c and a.
10. Jessi has a square plot of side m and another triangular plot with base and height each equal to m. What is the total area of both plots?