**Algebraic Expressions Worksheet**

*Form algebraic expressions*

1. Write algebraic expressions for the following phrases:
2. The sum of a number and 5.
3. The difference between 8 and a number.
4. Twice the sum of a number and 4.
5. The quotient of 5 and a number
6. The quotient of a number and the sum of a number and 3
7. A football team won three-quarters of the amount of matches that they played. Write an algebraic expression for the amount of matches that they did not win.
8. Cindy and her friends are taking a walk in the park. Three of them went home while five friends came to join Cindy in the park. Let represent the amount of persons that were originally in the park. Write an expression for the amount of persons that are now in the park.
9. Zoe has a certain amount of books in her bag at the start of the school day. By break time she has three less books. By the end of the day she has five times as many books as she had at break time. Write an algebraic expression for the amount of books Zoe has at the end of the day.
10. There is a certain amount of students in Mr. Chung’s class. Three weeks later he gets ten new students. One day, half of his class was absent from school. Write an algebraic expression for the amount of students that were absent from Mr. Chung’s class.

*Simplifying algebraic expressions*

1. Simplify the following by collecting like terms:
2. Simplify the following by canceling:
3. Expand and simplify the following: