

# Class 9 Mathematics - Exploring Algebraic Identities

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Medium Worksheet 1

### Questions

1. Expand  $(x + 7)^2$ .
2. Expand  $(2a + 5)^2$ .
3. Expand  $(3m + 4n)^2$ .
4. Expand  $(5p + q)^2$ .
5. Expand  $(2x + 3y)^2$ .
6. Expand  $(4a + 2b)^2$ .

### Answer Key

1.  $x^2 + 14x + 49$
2.  $4a^2 + 20a + 25$
3.  $9m^2 + 24mn + 16n^2$
4.  $25p^2 + 10pq + q^2$
5.  $4x^2 + 12xy + 9y^2$
6.  $16a^2 + 16ab + 4b^2$