

## Chapter 6



# Squares & Square Roots

**Shortcut methods for squaring numbers:**

**Squaring numbers using distributive property:**

We can also find the square of a number without actual multiplication.

**Example:**

$$\begin{aligned}49^2 &= (40 + 9)(40 + 9) \\ &= 40^2 + (40 \times 9) + (9 \times 40) + 9^2 \\ &= 1600 + 360 + 360 + 81\end{aligned}$$

$$49^2 = 2401$$

