Board –CBSE	Class – 8th	Topic – Square and Square roots

Q.1: Find the square of 23.

Soln.: $23^2 = 529$

Q.2: Is 144 a perfect square?

Soln.: Yes, $\sqrt{144} = 12$

Q.3: Find the square root of 400 using prime factorization.

Soln.: $400 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \sqrt{400} = 2 \times 2 \times 5 = 20$

Q.4: Find the square root of 784 using long division method.

Soln.: Using long division method, $\sqrt{784} = 28$

Q.5: Find the smallest number by which 180 must be multiplied to make it a perfect square.

Soln.: Prime factorization of 180 : $2 \times 2 \times 3 \times 3 \times 5$.

We multiply by 5 to make a pair.

Ans: 5

Q.6: Find the square root of 0.0009

Soln.: $\sqrt{0.0009} = 0.03$