Example 6 : The value of $\sqrt{176 + \sqrt{2401}}$ is

(a) 14   (b) 15   (c) 16   (d) 17

Example 7 : Given that $\sqrt{5625} = 75$, the value of $\sqrt{0.5625} + \sqrt{56.25}$ is:

(a) 82.5   (b) 0.75   (c) 8.25   (d) 75.05

Example 12 : 68^2 will have _____ at the units place.

Example 14 : The least number to be multiplied with 9 to make it a perfect cube is _____.

Example 22 : Check whether 1728 is a perfect cube by using prime factorisation.

Example 25 : Using prime factorisation, find the cube root of 5832.

Example 26 : Evaluate the square root of 22.09 by long division method.

Example 29 : Find the length of a diagonal of a rectangle with dimensions 20m by 15m.

7. The one's digit of the cube of 23 is

   (a) 6   (b) 7   (c) 3   (d) 9

8. A square board has an area of 144 square units. How long is each side of the board?

   (a) 11 units   (b) 12 units   (c) 13 units   (d) 14 units

113. A farmer wants to plough his square field of side 150m. How much area will he have to plough?

127. Rahul walks 12m north from his house and turns west to walk 35m to reach his friend's house. While returning, he walks diagonally from his friend's house to reach back to his house. What distance did he walk while returning?

135. Evaluate : $\sqrt[3]{27} + \sqrt[3]{0.008} + \sqrt[3]{0.064}$