

8th Square and Square Root CBSE Test Paper-4

1. Find value of $\frac{\sqrt{0.2304} + \sqrt{0.1764}}{\sqrt{0.2304} - \sqrt{0.1764}}$
2. Find the greatest number of 6 digit which is a perfect square.
3. Find the least number of 6 digit which is a perfect square.
4. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.
5. There are 500 children in a school. For a P.T. drill they have to stand in such a manner that the number of rows is equal to number of columns. How many children would be left out in this arrangement?
6. A teacher wants to arrange maximum possible no. of 6000 students in a field such that the no. of rows is equal is the no. of column. Find the no. of rows if 71 were left out after arrangement.
7. Find the square root of 237.615 correct to 3 places of decimal.
8. What is the smallest no. by which 3087 must be divided so that the quotient is a perfect cube?
9. The area of a square field is 5184 m². A rectangular field, whose length is twice its breadth, has its perimeter equal to the perimeter of the square field. Find the area of the rectangular field.
10. The sides of a rectangular field are 80 m and 18 m respectively. Find the length of its diagonal.
11. A rectangular plot of land measures 18 meters in length and 12 meters in width. Find the length of the diagonal of the plot.
12. Sarah is creating a mosaic pattern for her art project. She has a square tile with an area of 49 square centimeters. How long is each side of the square tile?
13. A wire is cut into four equal pieces, and each piece is bent to form a square. If the perimeter of one of these squares is 20 centimeters, what is the length of each side of the square?
14. Emily wants to build a square garden in her backyard. If the garden has an area of 64 square meters, what is the length of each side of the square garden?