Grade 8 Squares and Square Roots Worksheets

Grade 8 Maths Squares and Square Roots Multiple Choice Questions (MCQs)

1. **Which is the smallest three-digit perfect square?**
(a) 100
(b) 101
(c) 121
(d) 144

2. **Which is the greatest three-digit perfect square?**
(a) 999
(b) 961
(c) 962
(d) 970

3. **Which is the greatest 4-digit perfect square?**
(a) 9999
(b) 9990
(c) 9800
(d) 9801

4. **Which is the smallest 4-digit perfect square?**
(a) 1024
(b) 1025
(c) 1000
(d) 1016

5. **What will be the number of digits in the square root of 25600?**
(a) 3
(b) 2
(c) 5
(d) 4

6. **What will be the number of digits in the square root of 1296?**
(a) 2
(b) 3
(c) 1
(d) 4

7. **The square root of 12.25 is ……………… .**
(a) 3.5
(b) 2.5
(c) 35
(d) 25

8. **What is the length of the side of a square whose : area is 441 cm**
(a) 21
(b) 22
(c) 20
(d) 12
9. **In a right angle triangle ABC, right angled at B, AB = 6 cm, BC = 8 cm, then AC = ……………… .**
(a) 10
(b) 12
(c) 21
(d) 14
10. **Which least number should be subtracted from 629 so as to get a perfect square?**
(a) 4
(b) 5
(c) 6
(d) 3
11. **What is the smallest square number which is divisible by each of the numbers 6,9 and 15?**
(a) 900
(b) 810
(c) 630
(d) 720
12. **What is the length of the diagonal of a rectangle having dimensions 3 cm and 4 cm?**
(a) 5
(b) 7
(c) 1
(d) 4
13. **Which is the smallest square number that is divisible by each of the number 4, 9 and 10?**
(a) 900
(b) 810
(c) 800
(d) 920
14. **The square of which of the following would be even number?**
(a) 2826
(b) 7779
(c) 1057
(d) 131
15. **The square of which of the following would be odd number?**
(a) 431
(b) 272

(c) 1234
(d) 7928

16. Which of the following number would have digit 6 at units place?
(a) 19^2
(b) 24^2
(c) 25^2
(d) 13^2

17. The smallest number by which 12348 must be divided to obtain a perfect square is
(a) 3
(b) 5
(c) 4
(d) 7

18. $\sqrt{0.09}$ =?
(a) 3
(b) 0.3
(c) 0.03
(d) 0.33

19. $\sqrt{1.0816}$ =?
(a) 1.04
(b) 1.286
(c) 0.904
(d) 1.35

20. $\sqrt{0.9} \times \sqrt{1.6}$ = ?
(a) 0.12
(b) 1.2
(c) 0.75
(d) 12

Class 8 Maths Squares and Square Roots Fill In The Blanks

1. The digit at unit's place of square of 239 = …………………
2. 29 × 31 = ………………… − 1
3. 17 × 23 = ………………… − 3^2
4. $(151)^2 − (150)^2$ = ………………
5. The sum of first five odd numbers = ………………
6. If 6^x = 1296, than x = ………………..

Class 8 Maths Squares and Square Roots True(T) Or False(F)

1. The square of even number is always even.
2. 99 is 2-digit greatest perfect square number.
3. 248 is a perfect square number.
4. Square numbers can have odd number of zeros at the end.

Class 8 Maths Squares and Square Roots Very Short Answer Type Questions

1. What will be the "one's digit" in the squre of 1234?
What will be the number of zeros in the square of 400?
3. What will be the value of V in Pythagorean triplet (6, 8, x)?
4. By which smallest number 90 must be multiplied so as to make it a perfect square?
5. Which smallest number should be added to 80 so as to make it a perfect square?
6. What could be the possible 'one's digit' of the square root of 625?

Class 8 Maths Squares and Square Roots Short Answer Type Questions

1. Find the smallest number by which 192 must be multiplied to make the product perfect square.
2. Find the smallest square number which is divisible by the numbers 4, 12 and 16.
3. Find x if $\frac{x}{16} = \sqrt{\frac{9}{16}}$
4. For the international yoga day, yoga teacher has to arrange 1024 students in such a way that each row has as many students as the number of rows. Find the number of students in each row.

Class 8 Maths Squares and Square Roots Long Answer Type Questions

1. A square park of side 40 cm has a 4 m wide path surrounding it. Find the area of the path.
2. Find the least number which must be added to 2000 to make the sum a perfect square.
3. Find the square root of 3364 and 1936 and hence find the value of:

$$\frac{\sqrt{0.3364} + \sqrt{0.1936}}{\sqrt{0.3364} - \sqrt{0.1936}}$$