EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Squares and Square Roots

Grade : CBSE Grade VIII

1. The smallest number by which 98 must be multiplied so that the product is a perfect square is?

   (i) 2 (ii) 0 (iii) 3 (iv) 5 (v) 1

2. The solution of $\sqrt{19}$ lies between

   (i) 4.4 and 4.5 (ii) 4.1 and 4.2 (iii) 4.3 and 4.4 (iv) 4.5 and 4.6 (v) 4.2 and 4.3

3. The solution of $\sqrt{17}$ lies between

   (i) 5 and 6 (ii) 6 and 7 (iii) 2 and 3 (iv) 3 and 4 (v) 4 and 5

4. Find the smallest perfect square which is divisible by each of the numbers 9,15,14

   (i) 88200 (ii) 9451 (iii) 44100 (iv) 44102 (v) 5670

5. Find the least number that must be subtracted from 1965 to get a perfect square?

   (i) 29 (ii) 31 (iii) 28 (iv) 26 (v) 30

6. The solution of $\sqrt{7}$ lies between

   (i) 2.645 and 2.646 (ii) 2.646 and 2.647 (iii) 2.643 and 2.644 (iv) 2.647 and 2.648 (v) 2.644 and 2.645

7. If $\sqrt{144} = 12$, find the value of $\sqrt{1.44}$

   (i) 9.2 (ii) 3.2 (iii) 12 (iv) 0.1 (v) 1.2

8. Which of the following is not a perfect square?

   (i) 1600 (ii) 1847 (iii) 1296 (iv) 4 (v) 225

9. Find the smallest 3 digit number which is a perfect square?

   (i) 98 (ii) 99 (iii) 102 (iv) 101 (v) 100

10. Find the square root of 43.16

    (i) 6.57 (ii) 4.57 (iii) 5.57 (iv) 8.57 (v) 7.57

11. Find the smallest 4 digit number which is a perfect square?

    (i) 1021 (ii) 1023 (iii) 1025 (iv) 1027 (v) 1024

12. Find the square root of 4

    (i) 1 (ii) 2 (iii) -1 (iv) 4 (v) 3

13. If a number has 4 zeros at the end, its square has how many zeros?

    (i) 7 (ii) 5 (iii) 9 (iv) 11 (v) 8

14. The solution of $\sqrt{3}$ lies between

(i) 1.7321 and 1.7322 (ii) 1.7319 and 1.7320 (iii) 1.7320 and 1.7321 (iv) 1.7318 and 1.7319

(v) 1.7322 and 1.7323

15. Express 11^2 as the sum of two consecutive integers

(i) 59 + 60 (ii) 58 + 63 (iii) 62 + 59 (iv) 61 + 62 (v) 60 + 61

16. Find the smallest 2 digit number which is a perfect square?

(i) 17 (ii) 14 (iii) 18 (iv) 15 (v) 16

17. If $\sqrt{5041} = 71$, find the value of $\sqrt{0.5041}$

(i) 8.71 (ii) 0.71 (iii) 0.07 (iv) 7.1 (v) 2.71

18. Find the greatest 4 digit number which is a perfect square?

(i) 9799 (ii) 9803 (iii) 9801 (iv) 9800 (v) 9802

19. Identify the Pythagorean triplet whose one of the numbers is 82

(i) {18,80,82} (ii) {19,79,82} (iii) {16,78,82} (iv) {20,81,82} (v) {17,81,82}

20. Find the greatest 3 digit number which is a perfect square?

(i) 961 (ii) 962 (iii) 960 (iv) 963 (v) 959

21. Find the square root of 3693.2000

(i) 60.7717 (ii) 59.7717 (iii) 58.7717 (iv) 61.7717 (v) 62.7717

22. If $\sqrt{7056} = 84$, find the value of $\sqrt{70560000}$

(i) 8402 (ii) 8400 (iii) 84000 (iv) 840 (v) 8398

23. How many digits are there in the square root of 9604?

(i) 4 (ii) 3 (iii) 1 (iv) 0 (v) 2

24. The smallest number by which 2187 must be divided so that the quotient is a perfect square is?

(i) 2 (ii) 6 (iii) 3 (iv) 0 (v) 4

25. Find the prime factorization of 280

(i) $2^3 \times 5 \times 9$ (ii) $2 \times 5 \times 7$ (iii) $2^2 \times 5 \times 7$ (iv) $2^3 \times 5^2 \times 7$ (v) $2^3 \times 5 \times 7$

Assignment Key

1) (i)	2) (iii)	3) (v)	4) (iii)	5) (i)	6) (i)
7) (v)	8) (ii)	9) (v)	10) (i)	11) (v)	12) (ii)
13) (v)	14) (iii)	15) (v)	16) (v)	17) (ii)	18) (iii)
19) (i)	20) (i)	21) (i)	22) (ii)	23) (v)	24) (iii)
25) (v)					