EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Square Roots and Cube Roots

Grade : SSC Grade VIII

1. Find the square root of 25

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

2. Which of the following is not a perfect cube?

   (i) 219 (ii) 8 (iii) 1000 (iv) 343 (v) 512

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

   (i) 9801 (ii) 9804 (iii) 9800 (iv) 9802 (v) 9798

4. Find the cube root of $(\frac{-1}{27})$

   (i) $(\frac{-1}{3})$ (ii) $\frac{1}{3}$ (iii) -1 (iv) $(\frac{-1}{5})$

5. Express 29^2 as the sum of two consecutive integers

   (i) 419 + 420 (ii) 422 + 419 (iii) 420 + 421 (iv) 421 + 422 (v) 418 + 423

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

   (i) 2.66 and 2.67 (ii) 2.63 and 2.64 (iii) 2.64 and 2.65 (iv) 2.65 and 2.66 (v) 2.62 and 2.63

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

   (i) 784 (ii) 1225 (iii) 1599 (iv) 1024 (v) 289

8. Find the value of $21^3 - 20^3$

   (i) 1264 (ii) 1259 (iii) 1260 (iv) 1262 (v) 1261

9. The solution of $\sqrt{12}$ lies between

   (i) 3.465 and 3.466 (ii) 3.463 and 3.464 (iii) 3.464 and 3.465 (iv) 3.466 and 3.467 (v) 3.462 and 3.463

10. Find the cube root of -125

    (i) -6 (ii) -5 (iii) -8 (iv) -3 (v) -4

11. Find the square root of 20.40

    (i) 6.52 (ii) 3.52 (iii) 5.52 (iv) 4.52 (v) 2.52

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

    (i) 1023 (ii) 1024 (iii) 1025 (iv) 1027 (v) 1022

13. Find the greatest 5 digit number which is a perfect square?

    (i) 99856 (ii) 99855 (iii) 99854 (iv) 99859 (v) 99857

14. Identify the Pythagorean triplet whose smallest number is 8

(i) {8,16,18} (ii) {8,16,19} (iii) {8,17,18} (iv) {8,15,17} (v) {8,17,19}

15. Find the prime factorization of 72

(i) $2^2 \times 3^2$ (ii) $2^3 \times 3^2$ (iii) $(-1)^3 \times 3^2$ (iv) $5^3 \times 3^2$ (v) $2^3 \times 3^3$

16. Find the cube root of 2744

(i) 14 (ii) 199 (iii) 196 (iv) 11 (v) 17

17. Find the prime factorization of 1496

(i) $2^4 \times 11 \times 17$ (ii) $2^3 \times 10 \times 17$ (iii) $4^3 \times 11 \times 17$ (iv) $2^3 \times 9 \times 17$ (v) $2^3 \times 11 \times 17$

18. Find the prime factorization of 2835

(i) $3^5 \times 5 \times 7$ (ii) $3^4 \times 5 \times 7$ (iii) $3^3 \times 5 \times 7$ (iv) $3^4 \times 7 \times 7$ (v) $3^4 \times 2 \times 7$

19. Identify the Pythagorean triplet whose largest number is 50

(i) {15,47,50} (ii) {13,49,50} (iii) {12,46,50} (iv) {14,48,50} (v) {16,49,50}

20. If $\sqrt{8100} = 90$, find the value of $\sqrt{0.8100}$

(i) 0.09 (ii) 8.9 (iii) 2.9 (iv) 0.9 (v) 9

21. Find the least number that must be subtracted from 1167 to get a perfect square?

(i) 11 (ii) 8 (iii) 10 (iv) 12 (v) 13

22. Which of the following is a perfect cube?

(i) 28 (ii) 515 (iii) 1000 (iv) 214 (v) 342

23. Identify the Pythagorean triplet whose middle number is 80

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

24. If $\sqrt{3844} = 62$, find the value of $\sqrt{38.44}$

(i) 4.2 (ii) 8.2 (iii) 0.6 (iv) 6.2 (v) 62

25. Find the square root of 3949.7600

(i) 64.8471 (ii) 63.8471 (iii) 60.8471 (iv) 62.8471 (v) 61.8471

Assignment Key

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