

Square & Square Root Worksheet – 3

1. $\sqrt{132} + \sqrt{1369} = \underline{\hspace{2cm}}$.

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| a) 13 | b) 23 |
| c) 15 | d) 37 |

2. Find $\sqrt{23.2324}$ is $\underline{\hspace{2cm}}$.

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| a) 3.89 | b) 4.032 |
| c) 4.82 | d) 2.35 |

3. $\sqrt{5\frac{1}{16}} = \underline{\hspace{2cm}}$.

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| a) $\frac{5}{4}$ | b) $\frac{9}{4}$ |
| c) $\frac{3}{4}$ | d) $\frac{4}{9}$ |

4. Given that $\sqrt{1,444} = 38$, then find the value of $\sqrt{0.1444} + \sqrt{14.44}$ is $\underline{\hspace{2cm}}$.

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| a) 41.8 | b) 0.418 |
| c) 4.18 | d) 39.8 |

5. Find the smallest number by which 243 should be multiplied to make it perfect square.

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| a) 2 | b) 3 |
| c) 5 | d) 7 |

6. Find the square root of 6, correct to 2 decimal places and find the value of $\sqrt{\frac{5+\sqrt{6}}{5-\sqrt{6}}}$.

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| a) 2.70 | b) 3.44 |
| c) 2.75 | d) 1.70 |

7. Find the square root of 65,536 by division method.

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| a) 256 | b) 526 |
| c) 324 | d) 226 |

8. Find the square root of 4.084441 by long division method.

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| a) 2.841 | b) 2.021 |
| c) 2.181 | d) 2.048 |

9. Find the square root of 2025 by prime factorisation method.

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| a) 35 | b) 65 |
| c) 105 | d) 45 |

10. Find the value of square root of 69.7225 by long division method.

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| a) 8.45 | b) 8.65 |
| c) 8.35 | d) 8.95 |

11. Find the greatest number of five digits which is a perfect square.

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| a) 98,854 | b) 99,856 |
| c) 99,567 | d) 99,756 |

12. A boy walks 15m south from his house and turns east to walk 36 m to reach his friend's house. Then he returns diagonally from his friend's house to reach back to his house. So, find out the distance did he walk while returning.

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| a) 39m | b) 43m |
| c) 42m | d) 38m |

13. Find the smallest six-digit number which is a perfect square.

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| a) 10489 | b) 100894 |
| c) 100489 | c) 99849 |

14. Find the smallest number which must be added to 206452 to make it a perfect square.

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| a) 573 | b) 454 |
| c) 455 | d) 200725 |

15. Find the least number which must be subtracted from 16265 to make it perfect square. And find the square root of that resulting number.

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| a) 136, 127 | b) 132, 16129 |
| c) 1327, 136 | d) 16129,127 |

16. Evaluate $\sqrt{49284}$ and hence calculate the value of $\sqrt{492.84} + \sqrt{4.9284}$.

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| a) 2.442 | b) 24.42 |
| c) 24.24 | d) 244.2 |

17. Simplify $\frac{\sqrt{77.44} - \sqrt{1.44}}{\sqrt{77.44} + \sqrt{1.44}}$

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| a) 6.6 | b) 0.66 |
| b) 6.06 | d) 0.066 |

18. Find the square root of $\sqrt{24\frac{12}{121}}$.

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| a) $\frac{52}{11}$ | b) $\frac{53}{11}$ |
|--------------------|--------------------|

c) $\frac{54}{11}$

d) $\frac{51}{121}$

19. The area of a square park is $24\frac{76}{225}$ metres. Find the length of each side of the field.

a) $4\frac{2}{15}$ m

b) $4\frac{13}{15}$ m

c) $3\frac{11}{15}$ m

d) $4\frac{14}{15}$ m

20. A farmer has 1200 wheat plants. He wants to plant these in such a way that the number of rows and number of columns remains same. Find the minimum number of plants, he needs more for this.

a) 25

b) 30

c) 44

d) 32