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SQUARES & SQUARE ROOT

Worksheet 4

1. If in the five digit number 1b6a3, a is the greatest single digit perfect cube and twice of it exceeds b by 7, then the sum of the number and its cube root is _____.

A. 18700 B. 11862 C. 19710 D. 25320

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2. What is the least number which should be subtracted from 0.000326 to make it a perfect square?

A. 0.000002 B. 0.000004 C. 0.02 D. 0.04

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3. The students of class 8 of a school donated Rs. 2401 in all, for Prime Minister's National Relief Fund. Each student donated as many rupees as the number of students in the class. The number of students in the class, is

A. 47 B. 48 C. 49 D. 50

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4. If $\sqrt{2401} = \sqrt{7^x}$, then the value of x is

A. 3 B. 4 C. 5 D. 6

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5. Fill in the blanks and select the correct option.
(i) A number ending in ___(P)_____number of zeroes is never a perfect square.
(ii) The square of an ___(Q)_____natural number can always be written as the sum of two consecutive positive integers.
(iii) The sum of the first n odd natural numbers is ___(R)_____
(Iv) If $(3 \times 3 \times 7)^2$ = 3969, then $\sqrt{3969}$ = _____(S)_____.

	(P)	(Q)	(R)	(S)
A.	Odd	even	2^n	62
B.	Even	odd	n^2	69
C.	Even	even	n^3	39
D.	Odd	odd	n^2	63

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6. Find the least number that must be subtracted from 50730 to make it a perfect square.

A. 205 B. 105 C. 110 D. None of these

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7. Simplify: $\sqrt{45} - 3\sqrt{20} + 4\sqrt{5}$

A. $\sqrt{7}$ B. $\sqrt{5}$ C. $\sqrt{3}$ D. $\sqrt{2}$

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8. A square classroom has an area of 1,225 square feet. A carpenter has been asked to install baseboards around the perimeter of the room. How many feet of wood will the carpenter need to purchase in order to complete the baseboards in the classroom?

A. 35 B. 70 C. 140 D. 270

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9. A large cube has a base area of 196 square units. How many unit cubes does it take to build a large cube?

A. 196 B. 2714 C. 169 D. 2744

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10. How many non square numbers he between the pair of numbers 500^2 and 501^2 ?

A. 1000 B. 999 C. 1001 D. 1002

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Answer Key

1. B
2. A
3. C
4. B
5. D
6. B
7. B
8. C
9. D
10. A