

CLASS VIII – MATHEMATICS – CHAPTER 06
SQUARE AND SQUARE ROOTS

Name: _____

Date: _____

- 01.** Which of the following is a perfect square number?
(a). 2061 (b). 23453 (c). 222222 (d). 1057
- 02.** Which of the following would end with digit 1?
(a). 123^2 (b). 161^2 (c). 82^2 (d). 77^2
- 03.** The squares of which of the following would be odd numbers?
(a). 434 (b). 2826 (c). 7779 (d). 82004
- 04.** Without adding, find the sum. $1 + 3 + 5 + 7 + 9$
(a). 16 (b). 9 (c). 36 (d). 25
- 05.** Without doing any calculation, find the numbers which are surely perfect squares.
(a). 441 (b). 257 (c). 408 (d). 153
- 06.** What will be the number of zeros in the square of 60?
(a). 2 (b). 1 (c). 3 (d). 4
- 07.** How many natural numbers lie between 9^2 and 10^2 ?
(a). 9 (b). 18 (c). 27 (d). 36
- 08.** Without adding, find the sum. $1 + 3 + 5 + 7 + 9 + 11 + 13$
(a). 16 (b). 25 (c). 36 (d). 49
- 09.** Find the square roots of 729.
(a). 27 (b). 28 (c). 29 (d). 30
- 10.** What will be the number of zeros in the square of 400?
(a). 4 (b). 3 (c). 2 (d). 1
- 11.** How many natural numbers lie between 11^2 and 12^2 ?
(a). 11 (b). 22 (c). 33 (d). 44
- 12.** Without adding, find the sum. $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19$
(a). 49 (b). 64 (c). 81 (d). 100
- 13.** Find the square roots of 529.
(a). 23 (b). 22 (c). 20 (d). 19
- 14.** What will be the number of zeros in the square of 30?
(a). 2 (b). 4 (c). 3 (d). 1
- 15.** How many natural numbers lie between 100^2 and 101^2 ?
(a). 100 (b). 200 (c). 300 (d). 400
- 16.** Without adding, find the sum. $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17$
(a). 36 (b). 49 (c). 64 (d). 81
- 17.** Find the square roots of 484.
(a). 22 (b). 23 (c). 24 (d). 25
- 18.** How many natural numbers lie between 201^2 and 202^2 ?
(a). 201 (b). 402 (c). 603 (d). 804

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19. Find the square of 39.

- (a). 78 (b). 1500 (c). 1521 (d). none of these

20. Without adding, find the sum. $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21 + 23$

- (a). 81 (b). 100 (c). 121 (d). 144

21. Find the square roots of 1225.

- (a). 35 (b). 36 (c). 37 (d). 38

Q01. Fill in the blanks:

- (a). Numbers like 1, 4, 9, 16, 25 ... are known as _____.
- (b). All square numbers end with _____ at unit's place.
- (c). When a square number ends in ____, the number whose square it is, will have either 4 or 6 in unit's place.
- (d). Square numbers can only have _____ number of zeros at the end.
- (e). In general, if a natural number m can be expressed as n^2 , where n is also a natural number, then m is a ____.
- (f). None of the square numbers end with _____ at unit's place.
- (g). If a number has 1 or 9 in the unit's place, then it's square ends in _____.
- (h). _____ is the inverse operation of square.
- (i). 32 is not a _____ number.
- (j). All square numbers end with _____ at unit's place.
- (k). If a number has 2 or 8 in the unit's place, then it's square ends in _____.
- (l). 19^2 would have digit _____ at unit place.
- (m). 36^2 would have digit _____ at unit place.
- (n). If a number contains 3 zeros at the end, its square have _____ zeros.
- (o). If a number has 3 or 7 in the unit's place, then it's square ends in _____.
- (p). 24^2 would have digit _____ at unit place.
- (q). The unit digit of the square of 1234 is _____.
- (r). If a number contains 5 zeros at the end, its square have _____ zeros.
- (s). If a number has 5 in the unit's place, then it's square ends in _____.

Q02. Find the perfect square numbers between

- (i) 30 and 40. (ii) 100 and 120. (iii) 60 and 70. (iv) 120 and 130.

Q03. Find the smallest number by which 9408 must be divided so that the quotient is a perfect square. Find the square root of the quotient.

Q04. Find the least number that must be subtracted from 5607 so as to get a perfect square. Also find the square root of the perfect square.

Q05. 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row.

Q06. Find the greatest 4-digit number which is a perfect square.

Q07. Find the smallest square number that is divisible by each of the numbers 4, 9 and 10.

Q08. Find the least number that must be added to 1300 so as to get a perfect square. Also find the square root of the perfect square.

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- Q09.** Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.
- Q10.** A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.
- Q11.** Students of Class VIII 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. Find the number of students.
- Q12.** There are 500 children in a school. For a P.T. drill they have to stand in such a manner that the number of rows is equal to number of columns. How many children would be left out in this arrangement?

