

SATISH CHANDRA MEMORIAL SCHOOL
HOLIDAY HOMEWORK
STD VIII

MCQ QUESTION (1 TO 10)

1. Which is the greatest 4-digit perfect square?

- (a) 9999 (b) 9990 (c) 9800 (d) 9801

2. What will be the number of digits in the square root of 25600?

- (a) 3 (b) 2 (c) 5 (d) 4

3. Which least number should be subtracted from 629 so as to get a perfect square ?

- (a) 4 (b) 5 (c) 6 (d) 3

4. What is the smallest square number which is divisible by each of the numbers 6,9 and 15 ?

- (a) 900 (b) 810 (c) 630 (d) 720

5. What is the length of the diagonal of a rectangle having dimensions 3cm and 4cm?

- (a) 5 (b) 7 (c) 1 (d) 4

6. What will be the "one's digit" in the square of 1234 ?

- (a) 6 (b) 2 (c) 8 (d) 9

7. How many natural numbers lie between 9^2 and 10^2 ?

- (a) 15 (b) 19 (c) 18 (d) 17

8. Which is the greatest three-digit perfect cube?

- (a) 125 (b) 343 (c) 729 (d) 512

9. The smallest natural number by which 704 must be divided to obtain a perfect cube is

- (a) 22 (b) 12 (c) 11 (d) 13

10. A cuboid has dimensions 5cm, 2cm, 5cm. How many such cuboid will be needed to form a cube ?

- (a) 20 (b) 10 (c) 5 (d) 2

SHORT QUESTION (11 TO 20)

11. Three cubes of sides 3cm, 4cm and 5 cm respectively are melted to form a new cube. What is the side of new cube?

12. Find the value of $\frac{\sqrt[3]{729}-\sqrt[3]{27}}{\sqrt[3]{512}+\sqrt[3]{343}}$.

13. Is 250 a perfect cube? If not, then by which smallest natural number should 250 be divided so that the quotient is a perfect cube?

14. Evaluate a) $\sqrt[3]{\frac{-1728}{2744}}$ b) $\sqrt[3]{\frac{-125}{512}}$ Find the cube root of 13824 by prime factorization method.

15. Is 53240 a perfect cube? If not, then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?

16. Find the least number, which must be added to 1825 to make it a perfect square

17. A rectangular paper of length 45cm and breadth 5 cm is cut to form a square with the same area. What is the side of the square?

18. In a cinema hall 729 people are seated in such a way that the number of people in a row is equal to number of rows. Then how many rows of people are there in the hall?

19. Find the least number which must be subtracted from 1989 so as to get a perfect square. Also find the square root of the perfect square so obtained.

20. Find square root by long division method a) 962361 b) 1471369 c) 418609 .