

CLASS NOTES

Class: VIII

Topic: WORKSHEET

CH -6 SQUARES AND SQUARE ROOTS

CH -7 CUBES AND CUBE ROOTS

Subject: MATHEMATICS

OBJECTIVE TYPE QUESTIONS:

Q1. How many natural numbers lie between 9^2 and 10^2 ?

- A. 17
- B. 18
- C. 19
- D. 20

Q2. What is the sum of the first four odd natural numbers?

- A. 16
- B. 17
- C. 18
- D. 20

Q3. Which of the following is not a perfect cube?

- A. 216
- B. 1000
- C. 243
- D. 1331

Q4. Cube root of 15625 is:

- A. 5
- B. 15
- C. 25
- D. 35

Q5. Which of the following can be a perfect square?

- (i) A number ending in 3 or 7
- (ii) A number ending with odd number of zeros
- (iii) A number ending with even number of zeros
- (iv) A number ending in 2.

Q6. What could be the possible one's digit of the no. whose square is 361?

- (i) 3, 4
- (ii) 6, 7
- (iii) 1, 9
- (iv) 7, 8

Q7. What is the cube of $2a$?

- A. $2a^3$
- B. $4a^3$
- C. $8a^3$
- D. $16a^3$

Q8. A perfect cube of a number having 0 at its unit place, ends with _____ zeros.

- A. 1
- B. 2
- C. 3
- D. 4

Q9. The one's digit of the cube of 53 is:

- A. 9
- B. 3
- C. 7
- D. 1

Q10. What is the length of side of a square, if the area of square is 441 cm^2 ?

- A. 21 cm
- B. 29 cm
- C. 31 cm
- D. 39 cm

Q11. The Pythagorean triplet whose smallest number is 8:

- A. 8, 16, 17
- B. 8, 17, 18
- C. 8, 15, 17
- D. 8, 15, 16

Q12. Find the greatest four-digit number that is a perfect square.

- A. 9990
- B. 9801
- C. 9999
- D. 1000

SUBJECTIVE TYPE QUESTIONS:

Q13. Find the cubes of the following:

- (a) 0.3 (b) 0.8 (c) .001

Q14. Find the square roots of 196 and 225 by the method of repeated subtraction.

Q15. Find the cube roots of the following:

- (a) 1728 (b) 3375

Q16. Find the smallest whole number by which 1008 should be multiplied so as to get a perfect square number. Also, find the square root of the square number so obtained.

Q17. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.

Q18. Find the least number which must be added to 1750 so as to get a perfect square. Also, find the square root of the obtained number.

Q19. Find the square roots of the following decimal numbers using long division method :

- (i) 1056.25
(ii) 10020.01

Q20. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.

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