

DAV PUBLIC SCHOOL, DVC MTPS, BANKURA

Holiday Homework -1

Class VIII

Subject: Mathematics

Full marks-40

A) Answer the following questions:

[1X6=6]

- 1) What will be the digit in the thousand place of $(202)^2$.
- 2) Find $\sqrt{4}$ by repeated subtraction method.
- 3) The square root of an even number is _____.
- 4) State true or false.
 - (i) Cube of any odd number is even.
 - (ii) A perfect cube does not end with two zeros.
- 5) Evaluate: $112^2 - 19^2$
- 6) Write a number whose square, cube and itself are same.

B) Solve the following:

[2X5=10]

- i) Without adding find the sum of: $1+3+5+7+9$
- ii) Using the property of squares find the value of: $242^2 - 232^2$
- iii) Find the square root of 8836 by prime factorization method.
- iv) Estimate the value of $\sqrt{150}$ to the nearest to one decimal place.
- v) Find the cube root of 216000 by prime factorization method.

C) Answer the following questions:

[3X4=12]

- i) Find the smallest number by which 2475 must be multiplied to get a perfect square.
- ii) Find the least perfect square exactly divisible by each one of the number 6, 9, 10, 15 and 20.
- iii) By which smallest number must 5400 be multiplied to make it perfect cube?
- iv) Show that 384 is not a perfect cube.

D) Answer the following questions:

[4X3=12]

- i) Express 81 as the sum of 9 odd number.
- ii) The three numbers are in the ratio 2: 3: 4. The sum of their cubes is 33957.
- iii) Find the value: $\sqrt[3]{392} \times \sqrt[3]{448}$.

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Holiday Homework-2

Class VIII

Subject: Mathematics

Full marks-40

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Answer the following questions:

[6]

1) State True and false:

i) The cube of a two digit number may be a three digit number.

ii) The cube of a two digit number may have seven or more digits.

2). Find the cube root of following numbers of 614125 by prime factorization method .

3) Find the cube of 0.001.

4) Why 1057 is not a perfect square?

5) Evaluate $(10.1)^2 - (1.01)^2 = \underline{\hspace{2cm}}$.

6) What will be the unit digit of the square of 799.

B) Solve the following:

[2X5=10]

i) Express : 19^2 as the sum of two consecutive integer.

ii) Find the square root of: 86.49.

iii) Find the value of : $(0.3)^3 - (0.02)^3$.

iv) Evaluate: $(0.001)^3 + (0.0001)^2$

v) Which of the following neither cube nor square of any number: 9,17, 27,22,64.

C) Answer the following questions:

[3X4=12]

i) The area of a square field is $846m^2$. Aman takes 3 rounds of this field. Find the distance he covered.

ii) Find out the Pythagorean triplet whose one number is 14.

iii) Find the cube root of 12167.

iv) Write the cubes of all natural numbers between 1 to 10.

D) Answer the following questions:

[4X3=12]

i) Find out the square root of 1734489 by long division method.

ii) Find out the cube root of 175616 through estimation.

iii) Evaluate: $\sqrt[3]{288}\sqrt[3]{72}\sqrt[3]{27}$.