CLASS –VIII

Maths   Date:-22/04/2020

CHAPTER 3 - SQUARES AND SQUARE ROOTS

➢ **Watch the online videos "Squares and Square roots -Lecture 3, 4 & 5" from Optimum Online E-Learning Platform and try to comprehend the concepts of Square and square root. After that try to solve the questions given in your assignment.**
➢ **Lecture No. 03**
➢ **Lecture No. 04**
➢ **Lecture No. 05**

1. **Without adding, find the sum:**
   (i) (1+3+5+7+9+11+13)
   (ii) (1+3+5+7+9+11+13+15+17+19)
   (iii)(1+3+5+7+9+11+13+15+17+19+21+23)

2. **(i) Express 81 as the sum of 9 odd numbers.**
   (ii) Express 100 as the sum of 10 odd numbers.

3. **Write a Pythagorean triplet whose smallest member is**
   (i) 6
   (ii) 14
   (iii)16
   (iv)20

4. **Evaluate:**
   (i) $(38) - (37)$ (ii)
   $(75)^2 - (74)^2$
   (iii)$(92)^2 - (91)^2$
   (iv)$(105)^2 - (104)^2$
   (v) $(141) - (140)$

5. **Using the formula $(a + b) = (a^2 + 2ab + b^2)$, evaluate:**
   (i) (310) 2
   (ii) (508) 2

(iii) $(630)^2$

6. Using the formula $(a + b) = a^2 - 2ab + b^2)$, evaluate: (i) (196)
(ii) (689)
(iii) (891)

7. **Evaluate:**
(i) 69 X 71
(ii) 94 X 106
(iii)88 X 92
(iv)78 X 82

8. **Fill in the blanks:**
(i) The square of an even number is……….
(ii) The square of an odd number is…………
(iii) The square of a proper fraction is..............than the given fraction.
(iv) = the sum of first n.................natural numbers

9. **Write (T) for true and (F) for false for each of the statements given below:**
(i) The number of digits in a perfect square is even.
(ii) The square of a prime number is prime.
(iii) The sum of two perfect squares is a perfect squares.
(iv)The difference of two perfect squares is a perfect square.
(v) The product of two perfect squares is a perfect squares.

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