## Class 8

10-5-2016
Formative Assessment I in MATHEMATICS

Time : 1 hr .
M. Marks : 20

SECTION - A ( $4 \times 1=4$ marks)

1. How many numbers lie between the squares of 27 and 28?
2. Express 81 as the sum of 9 odd numbers.
3. Write a Pythagorean triplet whose smallest member is 10.
4. Find the side of the square whose area is $225 \mathrm{~cm}^{2}$.

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\text { SECTION - B } \quad(3 \times 2=6 \text { marks })
$$

5. Find the smallest square number that is divisible by each of the numbers 6,9 and 15 .
6. Find the square root of 12544 by prime factorization method.
7. Find the smallest number by which 3872 must be divided to obtain a perfect square. Also find the square root of the number obtained.

$$
\text { SECTION - C } \quad(2 \times 3=6 \text { marks })
$$

8. a) Find the cube root of 4096 .
b) Find the square root of 12.96
9. Find the smallest number by which 16875 must be multiplied to get a perfect cube. Find the cube root of the number obtained.

$$
\text { SECTION - D (1 x } 4=4 \text { marks })
$$

10. Find the smallest number which when added to 6158 makes it a perfect square. Also find the square root of the number obtained.
