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**Answer The Following**

- 1) If the square root of 2 is 1.41, then find the square root of 32.
- 2) There are two numbers such that sum of the numbers is 35 and their difference is 3. Find the difference of their squares.
- 3) Which is the smallest number that can be used to divide 688900 to give a perfect cube?
- 4) For the school assembly, the students are made to stand in the number of rows is equal to the number of students in each row. If there are 67 rows, how many students were present at the assembly?
- 5) Every day, a factory makes 1318 balls to the town market and 1629 balls to markets in other states. We know that at this more than 773 balls are remaining in the factory. If we know that the factory makes a perfect square number of balls every day, what is the smallest possible number of balls remaining in the factory?

**Choose correct answer(s) from given choice**

- 6) Assume that the symbol  $\lceil x \rceil$  denotes the largest integer not exceeding  $x$ . For example,  $\lceil 3 \rceil = 3$ , and  $\lceil 3.7 \rceil = 4$ .  
What is the value of  $\sqrt{1} + \sqrt{2} + \sqrt{3} + \dots + \sqrt{9}$ ?
 

a. 16	b. 22
c. 11	d. 19
- 7) What is the smallest number that must be subtracted from 274 to get a perfect square?
 

a. 17	b. 16
c. 18	d. 22
- 8) Which of the following numbers cannot be the sum of a square that has an integer value with?
 

a. 3364	b. 3109
c. 676	d. 3136
- 9) What is the smallest number that must be added to 806 to get a perfect square?
 

a. 3	b. 7
c. 4	d. 6