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Assignment Class 8 on Square Roots Questions and Answers Paper Exam

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Question 1

Find the square root of each of the following numbers by using the method of prime factorization:

- (a) 121
- (b) 441
- (c) 625
- (d) 729
- (e) 1521
- (f) 2025
- (g) 4096
- (h) 5776
- (i) 8100
- (j) 9216
- (k) 11236
- (l) 15876
- (m) 18496

Question 2

Find the smallest number by which following number must be multiplied to get a perfect square. Also, find the square root of the perfect square so obtained.

- (a) 1008
- (b) 1280
- (c) 1875

Question 3

676 students are to be sit in a hall such a way that each row contains as many students as the number of rows. Find the number of rows and the number of students in each row.

Question 4

What could be the possible 'one' s digits of the square root of each of the following numbers?

(i) 1801

(ii) 856

(iii) 1008001

(iv) 6577525

Answer:

1 and 9

Explanation: Since 1^2 and 9^2 give 1 at unit's place, so these are the possible values of unit digit of the square root.

4 and 6

Explanation: Since, $4^2 = 16$ and $6^2 = 36$, hence, 4 and 6 are possible digits

1 and 9

5

Explanation: Since, $5^2 = 25$, hence 5 is possible.

Question 5

The students of a class arranged a gift for the class teacher. Each student contributed as many rupees as the number in the class. If the total contribution is ₹ 1521. Find the strength of the class.