

MATHEMATICS
CLASS VIII
FA-2
Assignment No. 8
Ch 3 Square and Square Roots

1. Tick the correct alternative :
 - i. The square root of 37.21
 - a) 6.9 b) 5.9 c) 6.1 d) 5.1
 - ii. The square root of 0.4
 - a) 0.2 b) 0.02 c) 0.63 d) 0.16
 - iii. If $\sqrt{1 + \frac{49}{576}} = 1 + \frac{x}{24}$ then value of x is
 - a) 1 b) 7 c) 13 d) 25
 - iv. The least number to be subtracted from 743 to get a perfect square is
 - a) 14 b) 41 c) 98 d) 118
2. Which of the following are Pythagorean triplets:
 - i. 3,4,5 ii. 20,24,29 iii. 30,40,50 iv. 7,24,25
3. Find the smallest number by which 14700 should be divided so that it becomes a perfect square. Also find the square root of the number obtained.
4. Find the least number which must be added to 92700 to make it a perfect square.
5. Find the least number which must be subtracted from 194491 to make it a perfect square.
6. 9811 men are to be arranged in rows to form a perfect square. Find the number of men in each row and the number left out.
7. Which of the following are perfect squares?
 - i. 4225 ii. 4517 iii. 1024
7. Find the least number by which 7688 should be multiplied so that the resulting number becomes a perfect square.
8. Find the greatest 3-digit number which is a perfect square.
9. Find the least 4-digit number which is a perfect square.
10. By division method, find the square root of
 - i. 5929 ii. 3364 iii. 11025 iv. 571536
11. Find the square root of
 - i. $\frac{243}{867}$ ii. $\frac{1183}{5103}$ iii. $205\frac{4}{9}$ iv. $22\frac{11}{49}$
12. Find the square root of
 - i. 6.4009 ii. 26.01 iii. 0.0324 iv. 70.56
13. The area of a square field is 60025 sq m. Find the perimeter of the field.
14. Find the square root of 362.1409
15. During Diwali, Daya Shankar got a bonus of Rs 21025 by his employer. He decided to give a part of his bonus to one of his widow aunt at his village. He decided that the amount will be the square root of Rs 21025.
 - i. How much amount did he give to his aunt?
 - ii. The correct word for Daya Shankar is
 - a) Fool b) Wise/Good c) Bad d) None of these