

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2025-26

CLASS: VIII

SUBJECT: MATHEMATICS

DATE: 05-06-2025

LESSON: 5 SQUARES AND SQUARE ROOTS

1. The square of an even number is-----
2. The square of an odd number is-----
3. If a number has 1 or 9 at its unit's place, then it's square ends in-----
4. The number of non-perfect squares between 100 and 121
5. Find the perfect square numbers between 40 and 70
6. What will be the number of zeroes in the square of the following numbers:  
a) 300                      b) 80                      c) 2000
7. Write down the following as the sum of odd numbers  
a)  $7^2$                       b)  $9^2$
8. The number of non-square numbers lies between the following pair of numbers:  
a)  $71^2$  and  $72^2$                       b)  $125^2$  and  $126^2$                       c)  $1111^2$  and  $1112^2$
9. Express the following as the sum of two consecutive integers:  
a)  $13^2$                       b)  $21^2$                       c)  $19^2$
10. Find the square of  
a)  $\frac{-3}{7}$                       b)  $\frac{5}{9}$                       c) -12                      d) 26                      e) 45
11. What will be the unit place of the squares of the following numbers:  
a) 455                      b) 31                      c) 6789                      d) 368                      e) 84                      f) 12347
12. Write a Pythagorean triplet whose one member is  
a) 15                      b) 65                      c) 20
13. What could be the possible one's place digit of the square root of the following numbers:  
a) 3364                      b) 9025                      c) 15376                      d) 2401
14. Find the square root the following numbers using repeated subtraction method:  
a) 225                      b) 144                      c) 81                      d) 64
15. Find the square root of the following numbers using the factorisation method:  
a) 1024                      b) 2025                      c) 784                      d) 4356

16. Find the square root of the following numbers using the long division method:
- a) 1225                      b) 1936                      c) 5184                      d) 6561
17. Find the square root of the following decimal numbers:
- a) 23.04                      b) 12.96                      c) 2.89                      d) 34.81
18. Find the smallest square number that is divisible by each of the numbers
- a) 4,6,8                      b) 12,15,18
19. Find the smallest whole number by which it should be multiplied to get a perfect square. Also, find the square root of the square number so obtained.
- a) 90                      b) 1200                      c) 175
20. Find the smallest whole number by which it should be divided to get a perfect square. Also, find the square root of the square number obtained:
- a) 275                      b) 2450                      c) 496
21. Find the smallest square number that must be subtracted from each of the following numbers to get a perfect square. Also, find the square root of the perfect squares so obtained:
- a) 449                      b) 3140                      c) 2557                      d) 1300

**Answers:**

1. Even                      2. Odd                      3. 1                      4. 20                      5. 2
6. a) 4                      b) 2                      c) 6
7. a)  $1 + 3 + 5 + 7 + 9 + 11 + 13$   
b)  $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17$
8. a) 142                      b) 250                      c) 2222
9. a) 84 & 85                      b) 220 & 221                      c) 180 & 181
10. a)  $\frac{9}{49}$                       b)  $\frac{25}{81}$                       c) 144                      d) 676                      e) 2025
11. a) 5                      b) 1                      c) 1                      d) 4                      e) 6                      f) 9
12. a) 15,8,17                      b) 63,16,65                      c) 99,20,101

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|---------------|---------|-----------|-----------|
| 13. a) 2 or 8 | b) 5    | c) 4 or 6 | d) 1 or 9 |
| 14. a) 15     | b) 12   | c) 9      | d) 8      |
| 15. a) 32     | b) 45   | c) 28     | d) 66     |
| 16. a) 35     | b) 44   | c) 72     | d) 81     |
| 17. a) 4.8    | b) 3.6  | c) 1.7    | d) 5.9    |
| 18. a) 144    | b) 900  |           |           |
| 19. a) 10,30  | b) 3,60 | c) 7,35   |           |
| 20. a) 11,5   | b) 2,35 | c) 31,4   |           |
| 21. a) 8,21   | b) 4,56 | c) 57,50  | d) 4,36   |

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