Squares and Square Roots

Practice Worksheet 02

Name: _____ Date: _____

SECTION A | OBJECTIVE QUESTIONS

Choose one correct option for each question.

1. Which number is a perfect square?

   A) 324 B) 350 C) 375 D) 390

2. What is the square of 26?

   A) 626 B) 656 C) 676 D) 696

3. Find $\sqrt{1156}$.

   A) 32 B) 34 C) 36 D) 38

4. What is the units digit of 63^2?

   A) 3 B) 6 C) 7 D) 9

5. How many natural numbers lie strictly between 12^2 and 13^2?

   A) 23 B) 24 C) 25 D) 26

6. Find the least multiplier that makes 98 a perfect square.

   A) 2 B) 7 C) 14 D) 49

7. Find the least divisor that makes 245 a perfect square.

   A) 5 B) 7 C) 35 D) 49

8. Find $\sqrt{1.44}$.

   A) 0.12 B) 1.2 C) 12 D) 14.4

9. The sum of the first 15 odd natural numbers is:

   A) 120 B) 200 C) 225 D) 240

10. A square has an area of 256 m^2. Find its side length.

    A) 14 m B) 16 m C) 32 m D) 64 m

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SECTION B | SUBJECTIVE QUESTIONS

Show your method and write each final answer clearly.

11. Find the square of 39 using $(a - b)^2$. Show all steps.

12. Find $\sqrt{2304}$ by prime factorisation.

13. Find $\sqrt{3136}$ using the long division method.

14. Find the least number by which 432 must be multiplied to make a perfect square. Find the square root of the new number.

15. Find the least number by which 600 must be divided to make a perfect square. Find the square root of the quotient.

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SECTION B | SUBJECTIVE QUESTIONS (CONTINUED)

Show your method and write each final answer clearly.

16. Find the least number that must be added to 1100 to make a perfect square. State the resulting perfect square.

17. Find the least number that must be subtracted from 1800 to make a perfect square. State the resulting perfect square.

18. Find the greatest three-digit perfect square. Show your reasoning.

19. Find $\sqrt{17.64}$. Show your working.

20. A square garden has an area of 576 m^2. Find its side length and the total cost of fencing its boundary at ₹25 per metre.