Squares and Square Roots

Practice Worksheet 04

Name: _____ Date: _____

SECTION A | OBJECTIVE QUESTIONS

Choose one correct option for each question.

1. Which number is a perfect square?

   A) 850 B) 900 C) 950 D) 980

2. What is the square of 65?

   A) 4,125 B) 4,225 C) 4,325 D) 4,425

3. Find $\sqrt{2401}$.

   A) 47 B) 48 C) 49 D) 51

4. What is the units digit of 78^2?

   A) 2 B) 4 C) 6 D) 8

5. How many natural numbers lie strictly between 20^2 and 21^2?

   A) 39 B) 40 C) 41 D) 42

6. Find the least multiplier that makes 242 a perfect square.

   A) 2 B) 11 C) 22 D) 121

7. Find the least divisor that makes 726 a perfect square.

   A) 2 B) 3 C) 6 D) 11

8. Find $\sqrt{0.0625}$.

   A) 0.025 B) 0.25 C) 2.5 D) 25

9. Between which consecutive integers does $\sqrt{70}$ lie?

   A) 6 and 7 B) 7 and 8 C) 8 and 9 D) 9 and 10

10. What is the sum of the first 18 odd natural numbers?

    A) 289 B) 306 C) 324 D) 342

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SECTION B | SUBJECTIVE QUESTIONS

Show your method and write each final answer clearly.

11. Find the square of 97 using $(a - b)^2$. Show all steps.

12. Find $\sqrt{7056}$ by prime factorisation.

13. Find $\sqrt{6241}$ using the long division method.

14. Find the least number by which 864 must be multiplied to make a perfect square. Find the square root of the new number.

15. Find the least number by which 1575 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 3000 to make a perfect square. State the resulting perfect square.

17. Find the least number that must be subtracted from 4200 to make a perfect square. State the resulting perfect square.

18. Find the smallest perfect square that is divisible by each of 6, 8 and 15. Show your method.

19. Find $\sqrt{42.25}$. Show your working.

20. A square courtyard has an area of 1296 m^2. Find its side length. How many square tiles of side 2 m are needed to cover it without gaps or overlaps?