Squares and Square Roots

Practice Worksheet 03

Name: _____ Date: _____

SECTION A | OBJECTIVE QUESTIONS

Choose one correct option for each question.

1. Which number is NOT a perfect square?

   A) 441 B) 529 C) 625 D) 700

2. What is the square of 45?

   A) 1,825 B) 1,925 C) 2,025 D) 2,125

3. Find $\sqrt{1521}$.

   A) 37 B) 39 C) 41 D) 43

4. Which digit can be the units digit of a perfect square?

   A) 2 B) 3 C) 6 D) 7

5. How many natural numbers lie strictly between 15^2 and 16^2?

   A) 28 B) 29 C) 30 D) 31

6. Find the least multiplier that makes 150 a perfect square.

   A) 2 B) 3 C) 5 D) 6

7. Find the least divisor that makes 588 a perfect square.

   A) 2 B) 3 C) 6 D) 7

8. Find $\sqrt{2.25}$.

   A) 0.15 B) 1.5 C) 15 D) 22.5

9. Which is equal to $20^2 - 19^2$?

   A) 1 B) 19 C) 39 D) 41

10. A square has a perimeter of 72 cm. Find its area.

    A) 144 cm^2 B) 256 cm^2 C) 324 cm^2 D) 576 cm^2

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SECTION B | SUBJECTIVE QUESTIONS

Show your method and write each final answer clearly.

11. Find the square of 52 using $(a + b)^2$. Show all steps.

12. Find $\sqrt{3600}$ by prime factorisation.

13. Find $\sqrt{4489}$ using the long division method.

14. Find the least number by which 540 must be multiplied to make a perfect square. Find the square root of the new number.

15. Find the least number by which 1125 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 2000 to make a perfect square. State the resulting perfect square.

17. Find the least number that must be subtracted from 2500 to obtain a smaller perfect square.

18. Find the smallest five-digit perfect square. Explain your answer.

19. Find $\sqrt{27.04}$. Show your working.

20. A teacher has 900 counters and arranges all of them in a square. How many counters are in each row? If two complete rows are removed, how many counters remain?