1. Find the unit digit of the square root of the perfect square **5461569**.

2. Find the unit digit of the square of the number **26563467**.

3. Which of the following is a pythagorean triplet?
   a. **3,4,7**
   b. **2,4,6**
   c. **4,5,9**
   d. **3,4,5**

4. Find the least number that must be divided by **1331** to make it a perfect square.

5. Find the least number that must be subtracted from **5769** to make it a perfect square.

6. Find the sum of the square of the first 27 natural numbers.

7. Find the least number that must be multiplied to the given expression to make it a perfect square:
$$\frac{3 \times 3 \times 3 \times 3 \times 3 \times 7 \times 2}{11 \times 13}$$

8. Using the identity: $(a - b)^2 = a^2 + b^2 - 2ab$, find the value of $(991)^2$

9. If $a = 11, b = 10$, find the value of the given expression:
$$(a^2 + b^2 + 2ab) \times (a^2 + b^2 - 2ab)$$

10. If the perimeter of a square is **76** inches, find its area.

11. William and Sophia drew a ticket each from a state lottery. Both have got numbers printed on each of their tickets. William saw Sophia's number and told her that the number on his ticket is five times of the square root of the number on Sophia's ticket. If the number of Sophia's ticket is **3969**, help Sophia guess William's ticket's number.

12. Three numbers share a ratio of **4 : 5 : 7**, if the sum of the squares of the three numbers is **810**, find the value of each number.

13. If the plot of an agricultural land is in the shape of a square and is to be divided between two people by drawing the diagonal of the square. If the length of the diagonal is $17\sqrt{2}$ units, find the area allotted to each.

14. Emma wrote a number on the board. Now she will help Kevin identify the number using hints. She says, 'If we square the number two times, we get **0.4096**'. What is the number that she wrote on the board?

15. If the side length of a square becomes half of its original length, find the change in its area.

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- Barbara Cabrera

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ANSWERS

1) **3** or **9**	5) **293**	9) **441**	13) **14.45** square units
2) **9**	6) **6930**	10) **361** square inches	14) **0.8**
3) **3,4,5**	7) $\frac{42}{143}$	11) **315**	15) $\frac{3}{4}$ th
4) **11**	8) **1018081**	12) **12,15,21**	

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".

- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.