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Perfect Squares Worksheets

- 1) Which of the following is a Pythagorean triplet?
- A. 3,4,7
 - B. 2,4,6
 - C. 4,5,9
 - D. 3,4,5
- 2) Using the identity: $(a - b)^2 = a^2 + b^2 - 2ab$, find the value of 991^2 .

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

4) Find the sum of the square of the first **27** natural numbers.

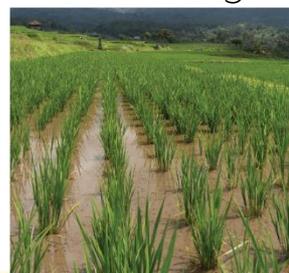
5) If $21^2 = 441$, then find the value of:

$$\sqrt{44100} - \sqrt{\frac{0.0041}{0.000041}} - \sqrt{4.41}$$

6) Find the least number that must be multiplied to the given expression to make it a perfect square:

$$\frac{3 \times 3 \times 3 \times 3 \times 3 \times 7 \times 2}{11 \times 13}$$

7) 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 **172** units, find the area allotted to each.



8) 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.



9) 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?



10) 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.

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	(A)
2)	441
3)	293
4)	6930
5)	107.9
6)	$\frac{42}{143}$

7)	14.45 square units
8)	315
9)	0.8
10)	12,15,21

FUN FACT

1. A perfect square always has even numbers of identical prime factors.
2. Another method to find the square root of any number is the long division method.
3. The quotient obtained in the long division is the square root.

