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Square Root Worksheets 8th Grade

1. The square root of $36a^6$ is _____.
2. The area of a square picture is 256 square units. Find the side of the square.
3. Write 784 as the product of prime factors, and find its square root?



4. The age of a person is 10 years more than the square root of the age of his father. Also the difference between his age, and the age of his father is 32 years. Find the age of the person.
5. The ages of two brother differs by 2 , and the sum of their ages is 14. Find the square root of the sum of the square of their ages.
6. Find the value of $\sqrt{1296}$.
7. Solve $\sqrt{800} - \sqrt{8}$.
8. What is the square root of 4489?
(a) 63 (b) 64 (c) 67 (d) 68
9. The square root of $\sqrt{490000}$ is equal to _____ .
10. Find the square root of 343.

**ANSWERS**

1)	$6a^3$
2)	16 units
3)	28
4)	17 years
5)	10
6)	36

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Why choose Cuemath?

"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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7)	$18\sqrt{2}$
8)	$(c) \cdot 67$
9)	700
10)	$7\sqrt{7}$

FUN FACT

1. Square root can be found by factor method or long division method.
2. The square root of non perfect square numbers is an irrational number, and not a whole number.
3. The concept of square root is used in the Pythagoras theorem for right angled triangles.

