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## Square Roots Worksheets

1. Convert the mixed root  $3\sqrt{5}$  into simple square root.
2. Find the square root of  $12(70 + 50)$ .
3. A rectangle has a length of 48 units and a breadth of 27 units. The area of this rectangle is equal to the area of another square. Find the side of the square.
4. Find the square root of 392.



5. If  $x = 8$ , what is the square root of  $x^3 - 4x^2$ .
6. Find the value of  $\sqrt{\{\sqrt{[\sqrt{(625)]}\}}$ .
7. Find the square root of  $x^2 + y^2 + z^2 + 2xy + 2yz + 2xz$ .
8.  $0.08A^2 = 72$ . What is the value of 'A' ?  
(a) 20      (b) 30      (c) 40      (d) 50
9. A square plot of land has an area of 676 square units. Find the perimeter of the square land.
10. Find the smallest number by which 1200 is to be divided to make it a perfect square.

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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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**ANSWERS**

1)	$\sqrt{45}$
2)	$12\sqrt{10}$
3)	36 units
4)	$28\sqrt{2}$
5)	16
6)	$\sqrt{5}$

7)	$x + y + z$
8)	(b) 30
9)	104 units
10)	3

## 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.

