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## Simplifying Square Roots Worksheets

Find the value of the expressions in questions 1-5

Round answers to 3 decimals where required

1)  $\sqrt{225}$

2)  $\sqrt{100} + \sqrt{144}$

3)  $\sqrt{36} - \sqrt{36}$

4)  $\sqrt{234}$

5)  $\sqrt{175}$

Simplify questions 6-7 to the lowest term

6)  $\sqrt{243} - 5\sqrt{12} + \sqrt{27}$

7)  $-\sqrt{117} - \sqrt{52}$

8) Square root of a perfect square can be irrational.

True or False

9) Simplify:  $\left(\frac{7}{11}\right)^2 \times \sqrt{\frac{289}{121}} - \frac{1}{22}$

10) Rony has to rent a certain number of chairs for the annual day celebrations in his college. He was told to put the number of chairs in one row which must be half the number of the rows in the hall. Find the number of chairs he needs to hire if he will have to keep 32 chairs in one row?



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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."

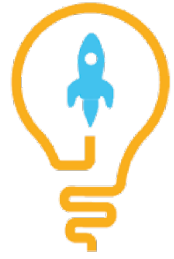
- Kirk Riley

"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)	15
2)	22
3)	0
4)	15.297
5)	13.229
6)	$2\sqrt{3}$
7)	$-5\sqrt{13}$
8)	False
9)	$\frac{461}{242}$
10)	2048

## FUN FACT

- 1) A perfect square always ends with the digits 1, 4, 5, 6, and 9.
- 2) A perfect square will always end with an even number of zeroes.
- 3) 0, 1 are the only numbers whose square and square roots are the same.

