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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) $\sqrt{289}$

2) $\sqrt{(10 + 111)}$

3) $\sqrt{(150 - 86)}$

4) $\sqrt{247}$

5) $\sqrt{142}$

Simplify questions 6-7 to the lowest term

6) $(\sqrt{17})(\sqrt{51})$

7) $(\sqrt{35})(2\sqrt{15})$

8) Square root of 0 is not 0. True or False

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

1) 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?



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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."

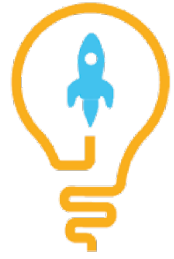
- Kirk Riley

"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) | 17 |
| 2) | 11 |
| 3) | 8 |
| 4) | 15.716 |
| 5) | 11.916 |
| 6) | $17\sqrt{3}$ |
| 7) | $10\sqrt{21}$ |
| 8) | False |
| 9) | 1018081 |
| 10) | 0.8 |

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.

