Multiplication and Simplification of Radicals Answer Key

A Radical Built for Two

Find each square root. In case of an irrational answer, provide an interval estimate.

1. $\sqrt{2}\sqrt{5}$

   $\sqrt{10}$

2. $\sqrt{7}\sqrt{63}$

   21

3. $2\sqrt{68}$

   $4\sqrt{7}$

4. $\sqrt{9}\sqrt{18}$

   $9\sqrt{2}$

5. $\sqrt{8}\sqrt{24}$

   $8\sqrt{3}$

6. $6\sqrt{36}$

   $6\sqrt{6}$

7. $\sqrt{24}\sqrt{12}$

   $12\sqrt{2}$

8. $\sqrt{121y^2}$

   $11y$

9. $\sqrt{a^2 + b^2 - 2ab}$

   $a - b$

10. $\sqrt{v^2 - u^2}\sqrt{u + v}$

    $(v + v)\sqrt{v - u}$

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