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## Multiplying Radicals Worksheet

Match the column A and B correctly.

	A		B
1.	$3\sqrt{10} \times \sqrt{8}$	i)	$3\sqrt{2}$
2.	$\sqrt{6} \times \sqrt{3}$	ii)	$2\sqrt{3}$
3.	$5\sqrt{6} \times 3\sqrt{2}$	iii)	$48\sqrt{5}$
4.	$3\sqrt{8} \times 4\sqrt{10}$	iv)	$30\sqrt{3}$

Solve

5.  $\sqrt{5} (2 + \sqrt{5}) = ?$  -----

6.  $\sqrt{6} (\sqrt{3} + \sqrt{12}) =$  -----

7. What will be the product of  $\sqrt{2}$  and  $\sqrt{5}$ ?

8. Find the product of  $(4 + 3\sqrt{2})$  and  $(\sqrt{10} + \sqrt{5})$

9. What will be the product of  $2\sqrt{12}$  and  $\sqrt{6}$ ?

10. Check whether the result of the product of the two radicals is true or not.

$$\sqrt{27xy} \times \sqrt{3xy} = 9xy$$

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in an interesting way,  
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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.	ii)	6.	$9\sqrt{2}$
2.	i)	7.	$\sqrt{10}$
3.	iv)	8.	$7\sqrt{10}+10\sqrt{5}$
4.	iii)	9.	$12\sqrt{2}$
5.	$2\sqrt{5} + 5$	10.	Correct

## FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

