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Multiplying Radicals Worksheet

Match the column A and B correctly.

	A		B
1.	$\sqrt{2} \times \sqrt{6}$	i)	30
2.	$\sqrt{5} \times 6\sqrt{5}$	ii)	$2\sqrt{3}$
3.	$6\sqrt{2} \times 2\sqrt{2}$	iii)	$3\sqrt{10}$
4.	$3\sqrt{5} \times \sqrt{2}$	iv)	24

Solve

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

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

7. What will be the product of $(12\sqrt{3} - 4)$ and $(12\sqrt{3} + 4)$

8. Find the product of: $6\sqrt{30}$, $3\sqrt{10}$, and $6\sqrt{3}$

9. What will be the product of: $\sqrt{2} \times \sqrt{6}$ and $3\sqrt{10}$

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

$$\sqrt{144xy} \times \sqrt{3xy} \times \sqrt{3xy} \times \sqrt{xy} = (36xy)xy$$

**When you learn math
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.	416
3.	iv)	8.	3240
4.	iii)	9.	$6\sqrt{30}$
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.

