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# Multiplying Square Roots Answers

**Section I. Multiply and simplify**

1. $5\sqrt{2} \cdot \sqrt{2} \rightarrow 5\sqrt{2 \cdot 2} \rightarrow 5 \cdot 2 = 10$

2. $\sqrt{3} \cdot -6\sqrt{3} \rightarrow -6\sqrt{3 \cdot 3} \rightarrow -6 \cdot 3 = -18$

3. $\sqrt{6} \cdot \sqrt{12}$
$\sqrt{6 \cdot 12} \rightarrow \sqrt{2 \cdot 3 \cdot 2 \cdot 2 \cdot 3} = 6\sqrt{2}$

4. $-2\sqrt{6} \cdot \sqrt{3} \rightarrow$
$-2\sqrt{6 \cdot 3} \rightarrow -2\sqrt{2 \cdot 3 \cdot 3} = -6\sqrt{2}$

5. $-7\sqrt{2} \cdot -\sqrt{10}$ $14\sqrt{5}$

6. $4\sqrt{7} \cdot -2\sqrt{7}$ $-56$

7. $5\sqrt{12} \cdot 2\sqrt{6}$ $60\sqrt{2}$

8. $2\sqrt{15} \cdot 4\sqrt{10}$ $40\sqrt{6}$

9. $9\sqrt{2} \cdot -4\sqrt{14}$ $-72\sqrt{7}$

10. $\frac{1}{4}\sqrt{6} \cdot -12\sqrt{15}$ $-9\sqrt{10}$

11. $-9\sqrt{14} \cdot \frac{2}{3}\sqrt{21}$ $-42\sqrt{6}$

12. $-3\sqrt{10} \cdot -8\sqrt{22}$ $48\sqrt{55}$

13. $\frac{5}{13}\sqrt{26} \cdot \frac{4}{5}\sqrt{13}$ $4\sqrt{2}$

14. $-\frac{1}{6}\sqrt{7} \cdot 12\sqrt{14}$ $-\sqrt{7}$