Product Property of Square Roots For every number  $m \ge 0$  and  $n \ge 0$ ,

$$\sqrt{m \cdot n} = \sqrt{m} \cdot \sqrt{n}$$

$$\sqrt{35} = \sqrt{5 \cdot 7} = \sqrt{5} \cdot \sqrt{7}$$

$$\sqrt{m} \cdot \sqrt{n} = \sqrt{m \cdot n}$$

$$\sqrt{5} \cdot \sqrt{7} = \sqrt{5 \cdot 7} = \sqrt{35}$$

Multiply values outside the radicals and the values under the radicals Always put final answer in simplified form

Multiply the following:

$$\sqrt{8} \cdot \sqrt{3}$$

$$\sqrt{6} \cdot \sqrt{8}$$

$$\sqrt{2} \cdot \sqrt{27}$$

## Multiply the following:

$$2\sqrt{2} \cdot 3\sqrt{10}$$

$$5\sqrt{6} \cdot 2\sqrt{2}$$

$$3\sqrt{5} \cdot 4\sqrt{10}$$

## Multiply the following:

$$3\sqrt{6} \cdot 3\sqrt{10}$$

$$\sqrt{12} \cdot 3\sqrt{3}$$

$$2\sqrt{2} \cdot 6\sqrt{8}$$

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$$\sqrt{m} \cdot \sqrt{n} = \sqrt{m \cdot n}$$

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Multiply values outside the radicals and the values under the radicals Always put final answer in simplified form