

Multiplying Radicals

Simplify.

$$1) \sqrt{6} \cdot -3\sqrt{2}$$
$$-6\sqrt{3}$$

$$2) \sqrt{5} \cdot \sqrt{10}$$
$$5\sqrt{2}$$

$$3) \sqrt{15} \cdot \sqrt{3}$$
$$3\sqrt{5}$$

$$4) \sqrt{2} \cdot \sqrt{2}$$
$$2$$

$$5) 5\sqrt{20} \cdot \sqrt{5}$$
$$50$$

$$6) \sqrt{25} \cdot \sqrt{25}$$
$$25$$

$$7) -5\sqrt{3n^2} \cdot -\sqrt{2n}$$
$$5n\sqrt{6n}$$

$$8) \sqrt{2v} \cdot \sqrt{5v^2}$$
$$v\sqrt{10v}$$

$$9) 3\sqrt{5x^2} \cdot \sqrt{3x^3}$$
$$3x^2\sqrt{15x}$$

$$10) -5\sqrt{20b^2} \cdot -4\sqrt{10b^3}$$
$$200b^2\sqrt{2b}$$

$$11) 4\sqrt{2x^2} \cdot \sqrt{2x}$$
$$8x\sqrt{x}$$

$$12) \sqrt{6x^3} \cdot \sqrt{15x}$$
$$3x^2\sqrt{10}$$