

<p>1. $\sqrt{36ab^4c^5}$ $6b^2c^2\sqrt{ac}$</p>	<p>2. $\sqrt{144x^7y^5}$ $12\sqrt{x^6 \cdot x \cdot y^4 \cdot y}$ $12x^3y^2\sqrt{xy}$</p>	<p>3. $\frac{\sqrt{c^5} \sqrt{d^1}}{\sqrt{d^9} \sqrt{d^1}} =$ $\frac{\sqrt{c^4cd}}{\sqrt{d^{10}}} = \frac{c^2\sqrt{cd}}{ d^5 }$</p>
<p>4. $\sqrt[4]{\frac{5x}{8y}}$ $\frac{\sqrt[4]{5x} \cdot \sqrt[4]{2y^3}}{\sqrt[4]{8y} \cdot \sqrt[4]{2y^3}}$ $\frac{\sqrt[4]{10xy^3}}{\sqrt[4]{16y^4}} = \frac{\sqrt[4]{10xy^3}}{2 y }$</p>	<p>5. $5\sqrt{2x} \cdot 3\sqrt{8x}$ $15\sqrt{16x^2}$ $15 \cdot 4 x$ $60 x$</p>	<p>6. $4\sqrt{5a^5} \cdot \sqrt{125a^3}$ $4\sqrt{625a^8}$ $4 \cdot 25a^4$ $100a^4$</p>
<p>7. $3\sqrt[3]{36xy} \cdot 2\sqrt[3]{6x^2y^2}$ $6\sqrt[3]{6 \cdot 6 \cdot 6x^3y^3}$ $6 \cdot 6xy$ $36xy$</p>		<p>8. $\sqrt[4]{3x^3y^2} \cdot \sqrt[4]{27xy^2}$ $\sqrt[4]{3x^3y^2} \cdot \sqrt[4]{3 \cdot 3 \cdot 3xy^2}$ $\sqrt[4]{3 \cdot 3 \cdot 3 \cdot 3x^4y^4}$ $3 xy$</p>
<p>18. $\sqrt{72a^8b^5}$ $\sqrt{36 \cdot 2a^8b^4 \cdot b}$ $6a^4b^2\sqrt{2b}$</p>	<p>19. $\sqrt{9a^{15}b^3}$ $3\sqrt{a^{14} \cdot a \cdot b^2 \cdot b}$ $3 a^7b \sqrt{ab}$</p>	

20.

$$\sqrt{24a^{16}b^8c}$$

$$2a^4b^4\sqrt{6c}$$

21.

$$\sqrt{81a^6b^3c^5}$$

$$9|a^3||b|c^2\sqrt{bc}$$

$$9|a^3b|c^2\sqrt{bc}$$

23.

$$\frac{\sqrt{7x}}{\sqrt{10y^3}} \cdot \frac{\sqrt{10y}}{\sqrt{10y}}$$

$$\frac{\sqrt{70xy}}{10y^2}$$

45.

$$\sqrt[3]{16y^4z^{12}}$$

$$\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2y \cdot y \cdot y \cdot z^4 \cdot z^4 \cdot z^4}$$

$$2yz^4\sqrt{2}$$

47.

$$\sqrt[4]{162a^6b^{13}c}$$

$$\sqrt[4]{81 \cdot 2a^4 \cdot a^2b^{12} \cdot b \cdot c}$$

$$3|ab^3|\sqrt[4]{2a^2bc}$$