

氏名 () 点数 _____

$$\begin{aligned}
 (1) \quad & \sqrt{3} \times (-4\sqrt{3}) \\
 & = -4 \times 3 \\
 & = \underline{-12}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \sqrt{45} \times \sqrt{24} \\
 & = 3\sqrt{5} \times 2\sqrt{6} \\
 & = \underline{6\sqrt{30}}
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \sqrt{40} \div \sqrt{2} \\
 & = \sqrt{20} \\
 & = \underline{2\sqrt{5}}
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \sqrt{3} \div \sqrt{5} \\
 & = \frac{\sqrt{3}}{\sqrt{5}} \\
 & = \underline{\frac{\sqrt{15}}{5}}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \sqrt{63} \times \sqrt{42} \\
 & = \sqrt{9} \times \sqrt{7} \times \sqrt{7} \times \sqrt{6} \\
 & = 3 \times 7 \times \sqrt{6} \\
 & = \underline{21\sqrt{6}}
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & \sqrt{30} \times \sqrt{42} \\
 & = \sqrt{5} \times \sqrt{6} \times \sqrt{6} \times \sqrt{7} \\
 & = 6 \times \sqrt{5} \times \sqrt{7} \\
 & = \underline{6\sqrt{35}}
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & \sqrt{45} \div \sqrt{3} \\
 & = \sqrt{45 \div 3} \\
 & = \underline{\sqrt{15}}
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & 2 \div \sqrt{8} \\
 & = \frac{2}{\sqrt{8}} \\
 & = \frac{2}{2\sqrt{2}} \\
 & = \frac{1}{\sqrt{2}} \\
 & = \underline{\frac{\sqrt{2}}{2}}
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & \sqrt{30} \div \sqrt{2} \div \sqrt{3} \\
 & = \frac{\sqrt{30}^{\cancel{15}^5}}{\sqrt{2}^{\cancel{1}^1} \times \sqrt{3}^{\cancel{1}^1}} \\
 & = \underline{\sqrt{5}}
 \end{aligned}$$

$$\begin{aligned}
 (10) \quad & 3\sqrt{6} \times 5\sqrt{2} \div 3\sqrt{3} \\
 & = \frac{1\cancel{3}^{\sqrt{6}^2} \times 5\sqrt{2}}{1\cancel{3}^{\sqrt{3}^1}} \\
 & = \sqrt{2} \times 5\sqrt{2} \\
 & = 2 \times 5 \\
 & = \underline{10}
 \end{aligned}$$