

1.  $\frac{2}{\sqrt{3}} \div 2\sqrt{2} \div \frac{\sqrt{2}}{\sqrt{27}}$  를 계산하여라.

▶ 답 :

▷ 정답 :  $\frac{3}{2}$

해설

$$\begin{aligned}(\text{준식}) &= \frac{2}{\sqrt{3}} \times \frac{1}{2\sqrt{2}} \times \frac{\sqrt{27}}{\sqrt{2}} \\&= \frac{2}{\sqrt{3}} \times \frac{1}{2\sqrt{2}} \times \frac{3\sqrt{3}}{\sqrt{2}} \\&= \frac{3}{2}\end{aligned}$$

2.  $\frac{\sqrt{20}}{\sqrt{5}} \times \sqrt{15} \div \sqrt{10}$  를 간단히 하면?

①  $\sqrt{2}$

②  $\sqrt{3}$

③ 2

④  $\sqrt{5}$

⑤  $\sqrt{6}$

해설

$$\begin{aligned}\frac{\sqrt{20}}{\sqrt{5}} \times \sqrt{15} \div \sqrt{10} &= \frac{\sqrt{20}}{\sqrt{5}} \times \sqrt{15} \times \frac{1}{\sqrt{10}} \\ &= \sqrt{2} \times \sqrt{3} = \sqrt{6}\end{aligned}$$

3.  $2\sqrt{3} \div 3\sqrt{2} \times \sqrt{27}$  을 간단히 하여라.

▶ 답 :

▷ 정답 :  $3\sqrt{2}$

해설

$$\begin{aligned} 2\sqrt{3} \div 3\sqrt{2} \times \sqrt{27} &= 2\sqrt{3} \times \frac{1}{3\sqrt{2}} \times 3\sqrt{3} \\ &= \frac{6}{\sqrt{2}} \\ &= \frac{6\sqrt{2}}{\sqrt{2}\sqrt{2}} \\ &= \frac{6\sqrt{2}}{2} \\ &= 3\sqrt{2} \end{aligned}$$

4. 식  $2(\sqrt{12} \times \sqrt{7}) \div (\sqrt{28} \times \sqrt{3})$  을 간단히 하면?

- ① 1      ② 2      ③ 3      ④ 4      ⑤ 5

해설

$$(\text{준식}) = \sqrt{\frac{4 \times 12 \times 7}{28 \times 3}} = 2$$