

1. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{2}$ 을 거듭제곱을 사용하여 나타낸 것은?

① $\frac{1}{2 \times 2 \times 3 \times 2 \times 2}$

③ $\frac{1}{2^2} \times \frac{1}{3^2}$

⑤ $\frac{1}{2^3 \times 3^2}$

② $\frac{1}{2 \times 2 \times 2} \times \frac{1}{3 \times 3}$

④ $\frac{1}{2^2 \times 3^2}$

2. 다음 중 옳은 것을 모두 고르면?

① $8000 = 8 + 10^3$

② $5 \times 5 \times 7 \times 7 \times 7 = 5^2 \times 7^3$

③ $2^4 = 2 + 2 + 2 + 2$

④ $4 \times 4 \times 4 = 2^6$

⑤ $\frac{1}{11} \times \frac{1}{11} \times \frac{1}{11} = \frac{3}{11}$

3. 다음 중 3^4 을 나타낸 식은?

① 3×4

② $3 + 3 + 3 + 3$

③ $4 \times 4 \times 4$

④ $3 \times 3 \times 3 \times 3$

⑤ 4×3

4. 다음 중 옳지 않은 것을 모두 고르면?(정답 2 개)

① $2 \times 2 \times 4 \times 4 \times 7 = 2^2 \times 4^2 \times 7$

② $\frac{1}{3 \times 3 \times 3 \times 3} = \frac{4}{3^3}$

③ $\frac{1}{2 \times 2 \times 5 \times 5} = \frac{1}{2^2 \times 5^2}$

④ $\frac{1}{3^2 \times 3^4} = \frac{1}{3^8}$

⑤ $a \times a \times a \times b \times b = a^3 \times b^2$

5. 다음 중 옳은 것을 모두 고르면?(정답 2개)

① $3 \times 3 \times 5 \times 5 \times 7 = 3^2 \times 2^5 \times 7$

② $\frac{1}{5 \times 5 \times 5 \times 5} = \frac{1}{5^4}$

③ $\frac{1}{3 \times 3 \times 7 \times 7} = \frac{1}{3^2 \times 7^2}$

④ $\frac{1}{7^4 \times 7^5} = \left(\frac{1}{9}\right)^7$

⑤ $a \times a \times a \times b \times b \times c = a^3 \times b^2 \times c^2$