

1. 다음을 계산하시오.

$$\frac{2}{3} + \frac{1}{2} + \frac{1}{6}$$

- ① $\frac{1}{6}$ ② $\frac{1}{4}$ ③ $\frac{1}{3}$ ④ $\frac{2}{3}$ ⑤ $1\frac{1}{3}$

해설

앞에서부터 두 분수씩 차례로 통분하여 더합니다.

$$\frac{2}{3} + \frac{1}{2} + \frac{1}{6} = \left(\frac{4}{6} + \frac{3}{6}\right) + \frac{1}{6} = \frac{7}{6} + \frac{1}{6}$$

$$= \frac{8}{6} = 1\frac{2}{6} = 1\frac{1}{3}$$

2. 분수를 통분하였습니다. 다음 중 통분이 바르게 되지 않은 것을 고르시오.

- ① $\left(\frac{2}{3}, \frac{1}{6}\right) \rightarrow \left(\frac{4}{6}, \frac{1}{6}\right)$
② $\left(\frac{3}{5}, \frac{2}{10}\right) \rightarrow \left(\frac{6}{10}, \frac{2}{10}\right)$
③ $\left(\frac{2}{3}, \frac{3}{5}, \frac{1}{2}\right) \rightarrow \left(\frac{25}{30}, \frac{18}{30}, \frac{12}{30}\right)$
④ $\left(\frac{1}{2}, \frac{3}{5}, \frac{3}{4}\right) \rightarrow \left(\frac{10}{20}, \frac{12}{20}, \frac{15}{20}\right)$
⑤ $\left(\frac{1}{3}, \frac{1}{4}, \frac{1}{5}\right) \rightarrow \left(\frac{20}{60}, \frac{15}{60}, \frac{12}{60}\right)$

해설

$$\begin{aligned}\left(\frac{2}{3}, \frac{3}{5}, \frac{1}{2}\right) &= \left(\frac{2 \times 10}{3 \times 10}, \frac{3 \times 6}{5 \times 6}, \frac{1 \times 15}{2 \times 15}\right) \\ &= \left(\frac{20}{30}, \frac{18}{30}, \frac{15}{30}\right)\end{aligned}$$