

1. 다음 식의 계산에서 □ 안에 알맞은 수나 식을 차례대로 써넣어라.

(1)

$$\begin{aligned} & \left(\frac{1}{3}a - \frac{1}{2}b\right) + \left(\frac{2}{3}a + \frac{3}{2}b\right) \\ &= \frac{1}{3}a - \frac{1}{2}b + \frac{2}{3}a + \frac{3}{2}b \\ &= \frac{1}{3}a + \square a - \frac{1}{2}b + \square \\ &= (\square + \square)a + (\square + \square)b \\ &= \square a + \square b \end{aligned}$$

(2)

$$\begin{aligned} & \left(\frac{1}{5}a - \frac{2}{3}b\right) - \left(\frac{3}{5}a - \frac{1}{3}b\right) \\ &= \frac{1}{5}a - \frac{2}{3}b - \frac{3}{5}a + \frac{1}{3}b \\ &= \frac{1}{5}a - \square a - \square + \frac{1}{3}b \\ &= (\square - \square)a + (\square + \square)b \\ &= \square a + \square b \end{aligned}$$

▶  $\frac{2}{3}a, \frac{3}{2}b, \frac{1}{3}a, \frac{2}{3}b, -\frac{1}{2}a, \frac{3}{2}b, 1, 1, \therefore \frac{3}{5}a, \frac{2}{3}b, \frac{1}{5}a, \frac{3}{5}b, -\frac{2}{3}a, \frac{1}{3}b, -\frac{2}{5}a, -\frac{1}{3}b$

해설

(1)

$$\begin{aligned} & \left(\frac{1}{3}a - \frac{1}{2}b\right) + \left(\frac{2}{3}a + \frac{3}{2}b\right) \\ &= \frac{1}{3}a - \frac{1}{2}b + \frac{2}{3}a + \frac{3}{2}b \\ &= \frac{1}{3}a + \frac{2}{3}a - \frac{1}{2}b + \frac{3}{2}b \\ &= \left(\frac{1}{3} + \frac{2}{3}\right)a + \left(-\frac{1}{2} + \frac{3}{2}\right)b \\ &= 1a + 1b \end{aligned}$$

(2)

$$\begin{aligned} & \left(\frac{1}{5}a - \frac{2}{3}b\right) - \left(\frac{3}{5}a - \frac{1}{3}b\right) \\ &= \frac{1}{5}a - \frac{2}{3}b - \frac{3}{5}a + \frac{1}{3}b \\ &= \frac{1}{5}a - \frac{3}{5}a - \frac{2}{3}b + \frac{1}{3}b \\ &= \left(\frac{1}{5} - \frac{3}{5}\right)a + \left(-\frac{2}{3} + \frac{1}{3}\right)b \\ &= -\frac{2}{5}a + \left(-\frac{1}{3}\right)b \end{aligned}$$