

小数と分数の減法

小数は分数にして、通分して計算する。

$$\begin{aligned}
 & \left(+\frac{1}{5}\right) - (-0.1) \\
 = & \left(+\frac{1}{5}\right) + (+0.1) && \left. \begin{array}{l} \text{ひく数の符号を変えて加法にする} \\ \text{小数を分数にする} \\ \text{分母が異なる2つの分数を通分する} \end{array} \right\} \\
 = & \left(+\frac{1}{5}\right) + \left(+\frac{1}{10}\right) \\
 = & \left(+\frac{2}{10}\right) + \left(+\frac{1}{10}\right) \\
 = & +\frac{3}{10}
 \end{aligned}$$

1 次の計算をなさい。

① $\left(+\frac{5}{6}\right) - (+0.2)$

② $(+0.3) - \left(-\frac{1}{2}\right)$

③ $(+0.1) - \left(+\frac{2}{3}\right)$

④ $\left(-\frac{3}{7}\right) - (+0.4)$

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 & \left(+\frac{1}{5}\right) - (-0.1) \\
 = & \left(+\frac{1}{5}\right) + (+0.1) && \left. \begin{array}{l} \text{ひく数の符号を変えて加法にする} \\ \text{小数を分数にする} \end{array} \right\} \\
 = & \left(+\frac{1}{5}\right) + \left(+\frac{1}{10}\right) && \left. \begin{array}{l} \text{分母が異なる2つの分数を通分する} \end{array} \right\} \\
 = & \left(+\frac{2}{10}\right) + \left(+\frac{1}{10}\right) \\
 = & +\frac{3}{10}
 \end{aligned}$$

1 次の計算をなさい。

$$\begin{aligned}
 \textcircled{1} \quad & \left(+\frac{5}{6}\right) - (+0.2) \\
 = & \left(+\frac{5}{6}\right) + (-0.2) \\
 = & \left(+\frac{5}{6}\right) + \left(-\frac{2}{10}\right) \\
 = & \left(+\frac{25}{30}\right) + \left(-\frac{6}{30}\right) \\
 = & +\frac{19}{30}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{2} \quad & (+0.3) - \left(-\frac{1}{2}\right) \\
 = & (+0.3) + \left(+\frac{1}{2}\right) \\
 = & \left(+\frac{3}{10}\right) + \left(+\frac{1}{2}\right) \\
 = & \left(+\frac{3}{10}\right) + \left(+\frac{5}{10}\right) \\
 = & +\frac{8}{10} = +\frac{4}{5}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{3} \quad & (+0.1) - \left(+\frac{2}{3}\right) \\
 = & (+0.1) + \left(-\frac{2}{3}\right) \\
 = & \left(+\frac{1}{10}\right) + \left(-\frac{2}{3}\right) \\
 = & \left(+\frac{3}{30}\right) + \left(-\frac{20}{30}\right) \\
 = & -\frac{17}{30}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{4} \quad & \left(-\frac{3}{7}\right) - (+0.4) \\
 = & \left(-\frac{3}{7}\right) + (-0.4) \\
 = & \left(-\frac{3}{7}\right) + \left(-\frac{4}{10}\right) \\
 = & \left(-\frac{3}{7}\right) + \left(-\frac{2}{5}\right) \\
 = & \left(-\frac{15}{35}\right) + \left(-\frac{14}{35}\right) = -\frac{29}{35}
 \end{aligned}$$