

◇◇ <正負の数 加法 分数 総合問題> No. 1 ◇◇

・次の計算をしなさい。

$$\begin{aligned} (1) \quad & \left(+\frac{1}{3} \right) + \left(+\frac{1}{5} \right) \\ &= \left(+\frac{5}{15} \right) + \left(+\frac{3}{15} \right) \quad \leftarrow \text{まず通分!!!} \\ &= +\left(\frac{5}{15} + \frac{3}{15} \right) = +\frac{8}{15} \end{aligned}$$

$$\begin{aligned} (7) \quad & \left(-\frac{3}{4} \right) + \left(-\frac{1}{6} \right) \\ &= \left(-\frac{9}{12} \right) + \left(-\frac{2}{12} \right) \\ &= -\left(\frac{9}{12} + \frac{2}{12} \right) = -\frac{11}{12} \end{aligned}$$

$$\begin{aligned} (2) \quad & \left(-\frac{2}{3} \right) + \left(+\frac{1}{6} \right) \quad \uparrow \text{答えが「+」の時は、} \\ &= \left(-\frac{4}{6} \right) + \left(+\frac{1}{6} \right) \quad \uparrow \text{「+」なしで } \frac{8}{15} \text{ でも可。} \\ &= -\left(\frac{4}{6} - \frac{1}{6} \right) = -\frac{3_1}{6_2} = -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} (8) \quad & \left(-\frac{4}{3} \right) + \left(+\frac{5}{2} \right) \\ &= \left(-\frac{8}{6} \right) + \left(+\frac{15}{6} \right) \\ &= +\left(\frac{15}{6} - \frac{8}{6} \right) = +\frac{7}{6} \end{aligned}$$

$$\begin{aligned} (3) \quad & \left(+\frac{7}{9} \right) + \left(-\frac{5}{6} \right) \quad \uparrow \text{「-」は忘れずにね!} \\ &= \left(+\frac{14}{18} \right) + \left(-\frac{15}{18} \right) \\ &= -\left(\frac{15}{18} - \frac{14}{18} \right) = -\frac{1}{18} \end{aligned}$$

$$\begin{aligned} (9) \quad & \left(+\frac{5}{8} \right) + \left(-\frac{2}{3} \right) \\ &= \left(+\frac{15}{24} \right) + \left(-\frac{16}{24} \right) \\ &= -\left(\frac{16}{24} - \frac{15}{24} \right) = -\frac{1}{24} \end{aligned}$$

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

$$\begin{aligned} (10) \quad & \left(+\frac{1}{2} \right) + \left(+\frac{1}{6} \right) \\ &= \left(+\frac{3}{6} \right) + \left(+\frac{1}{6} \right) \\ &= +\left(\frac{3}{6} + \frac{1}{6} \right) = +\frac{4_2}{6_3} = +\frac{2}{3} \end{aligned}$$

$$\begin{aligned} (5) \quad & \left(-\frac{1}{6} \right) + \left(+\frac{3}{8} \right) \\ &= \left(-\frac{4}{24} \right) + \left(+\frac{9}{24} \right) \\ &= +\left(\frac{9}{24} - \frac{4}{24} \right) = +\frac{5}{24} \end{aligned}$$

$$\begin{aligned} (11) \quad & \left(+\frac{5}{4} \right) + \left(-\frac{9}{10} \right) \\ &= \left(+\frac{25}{20} \right) + \left(-\frac{18}{20} \right) \\ &= +\left(\frac{25}{20} - \frac{18}{20} \right) = +\frac{7}{20} \end{aligned}$$

$$\begin{aligned} (6) \quad & \left(+\frac{2}{15} \right) + \left(-\frac{4}{5} \right) \\ &= \left(+\frac{2}{15} \right) + \left(-\frac{12}{15} \right) \\ &= -\left(\frac{12}{15} - \frac{2}{15} \right) = -\frac{10_2}{15_3} = -\frac{2}{3} \end{aligned}$$

$$\begin{aligned} (12) \quad & \left(-\frac{3}{10} \right) + \left(-\frac{1}{5} \right) \\ &= \left(-\frac{3}{10} \right) + \left(-\frac{2}{10} \right) \\ &= -\left(\frac{3}{10} + \frac{2}{10} \right) = -\frac{5_1}{10_2} = -\frac{1}{2} \end{aligned}$$

◇同符号の時、異符号の時、足すのか？引くのか？そしてどっちの符号を付ける？考え方は整数の時と同じだよぉ(^ ▽ ^) ♪

◇◇ <正負の数 加法 分数 総合問題> No. 2 ◇◇

$$(1) -\frac{1}{3} + \frac{1}{5} \quad \leftarrow () + () \text{の中に入れるとわかりやすいよ。}$$

$$= (-\frac{5}{15}) + (+\frac{3}{15}) \quad \leftarrow \text{そして通分!!!}$$

$$= -(\frac{5}{15} - \frac{3}{15}) = -\frac{2}{15}$$

$$(2) -\frac{2}{3} + \frac{1}{6}$$

$$= (-\frac{4}{6}) + (+\frac{1}{6})$$

$$= -(\frac{4}{6} - \frac{1}{6}) = -\frac{3_1}{6_2} = -\frac{1}{2}$$

$$(3) \frac{7}{9} - \frac{5}{6}$$

$$= (+\frac{14}{18}) + (-\frac{15}{18})$$

$$= -(\frac{15}{18} - \frac{14}{18}) = -\frac{1}{18}$$

$$(4) -\frac{1}{8} - \frac{1}{4}$$

$$= (-\frac{1}{8}) + (-\frac{2}{8})$$

$$= -(\frac{1}{8} + \frac{2}{8}) = -\frac{3}{8}$$

$$(5) -\frac{1}{6} + \frac{3}{8}$$

$$= (-\frac{4}{24}) + (+\frac{9}{24})$$

$$= +(\frac{9}{24} - \frac{4}{24}) = +\frac{5}{24}$$

$$(6) \frac{2}{15} - \frac{4}{5}$$

$$= (+\frac{2}{15}) + (-\frac{12}{15})$$

$$= -(\frac{12}{15} - \frac{2}{15}) = -\frac{10_2}{15_3} = -\frac{2}{3}$$

$$(7) -\frac{3}{4} - \frac{1}{6}$$

$$= (-\frac{9}{12}) + (-\frac{2}{12})$$

$$= -(\frac{9}{12} + \frac{2}{12}) = -\frac{11}{12}$$

$$(8) -\frac{4}{3} + \frac{5}{2}$$

$$= (-\frac{8}{6}) + (+\frac{15}{6})$$

$$= +(\frac{15}{6} - \frac{8}{6}) = +\frac{7}{6}$$

$$(9) \frac{5}{8} - \frac{2}{3}$$

$$= (+\frac{15}{24}) + (-\frac{16}{24})$$

$$= -(\frac{16}{24} - \frac{15}{24}) = -\frac{1}{24}$$

$$(10) -\frac{1}{6} + \frac{1}{2}$$

$$= (-\frac{1}{6}) + (+\frac{3}{6})$$

$$= +(\frac{3}{6} - \frac{1}{6}) = +\frac{2_1}{6_3} = +\frac{1}{3}$$

$$(11) \frac{5}{4} - \frac{9}{10}$$

$$= (+\frac{25}{20}) + (-\frac{18}{20})$$

$$= +(\frac{25}{20} - \frac{18}{20}) = +\frac{7}{20}$$

$$(12) -\frac{3}{10} - \frac{1}{5}$$

$$= (-\frac{3}{10}) + (-\frac{2}{10})$$

$$= -(\frac{3}{10} + \frac{2}{10}) = -\frac{5_1}{10_2} = -\frac{1}{2}$$

◇カッコ無しの加法(整数)に慣れている人は、 $-\frac{1}{3} + \frac{1}{5} = -\frac{5}{15} + \frac{3}{15} = \frac{-5+3}{15} = -\frac{2}{15}$ と、カッコ無しのまま計算してもいいよ！