

正負の数 項という考えによる計算 1 解答編

以下の計算を、すべて項を考えることによって行いなさい。

I	II	III
① $1 - 4 = -3$	① $2 - 6 = -4$	① $1 - 7 = -6$
② $-5 + 2 = -3$	② $-1 + 2 = 1$	② $-2 + 5 = 3$
③ $-3 + 2 = -1$	③ $-4 + 6 = 2$	③ $-3 + 1 = -2$
④ $5 + 2 = 7$	④ $5 + 6 = 11$	④ $5 - 9 = -4$
⑤ $-2 - 5 = -7$	⑤ $-2 - 3 = -5$	⑤ $-2 + 9 = 7$
⑥ $-8 - 2 = -10$	⑥ $-7 - 1 = -8$	⑥ $-8 - 6 = -14$
⑦ $-3 - 7 = -10$	⑦ $-2 - 7 = -9$	⑦ $-1 - 7 = -8$
⑧ $-2 + 7 = 5$	⑧ $-6 + 7 = 1$	⑧ $-2 + 9 = 7$
⑨ $5 + 1 = 6$	⑨ $1 + 8 = 9$	⑨ $5 + 1 - 2 = 4$
⑩ $2 - 8 = -6$	⑩ $1 - 8 = -7$	⑩ $2 - 4 = -2$
⑪ $-7 + 6 = -1$	⑪ $-7 + 5 = -2$	⑪ $-7 + 2 = -5$
⑫ $-4 + 9 = 5$	⑫ $-7 - 5 = -12$	⑫ $-4 + 7 = 3$
⑬ $9 - 4 = 5$	⑬ $9 - 1 = 8$	⑬ $9 - 13 = -4$
⑭ $2 - 4 = -2$	⑭ $2 - 9 = -7$	⑭ $12 - 9 = 3$
⑮ $-8 + 2 = -6$	⑮ $-6 + 2 = -4$	⑮ $-8 + 12 = 4$
⑯ $-1 + 7 = 6$	⑯ $-1 + 5 = 4$	⑯ $-8 + 7 = -1$
⑰ $1 + 3 = 4$	⑰ $2 + 3 = 5$	⑰ $1 + 3 - 8 = -4$
⑱ $-1 - 5 = -6$	⑱ $-1 - 9 = -10$	⑱ $-2 - 5 = -7$
⑲ $-1 + 1 = 0$	⑲ $-1 + 2 = 1$	⑲ $-1 + 1 = 0$
⑳ $1 - 2 = -1$	⑳ $1 - 9 = -8$	⑳ $1 - 3 = -2$

IV

- ① $2 + 1 - 3 = 0$
 ② $-4 + 2 - 6 = -8$
 ③ $-3 + 4 + 1 = 2$
 ④ $5 + 7 - 9 = 3$
 ⑤ $-2 - 3 + 6 = 1$
 ⑥ $-4 - 2 - 6 = -12$
 ⑦ $-3 - 1 + 5 = 1$
 ⑧ $-5 + 7 - 2 = 0$
 ⑨ $5 + 2 - 5 = 2$
 ⑩ $2 - 5 + 0 = -3$

V

- ① $-7 + 4 + 2 = -1$
 ② $-4 - 9 + 7 = -6$
 ③ $-8 + 9 - 2 = -1$
 ④ $2 - 9 + 6 = -1$
 ⑤ $-8 + 0 + 4 = -4$
 ⑥ $-1 + 6 - 5 = 0$
 ⑦ $1 - 0 + 2 = 3$
 ⑧ $-1 - 2 - 3 = -6$
 ⑨ $-1 + 2 + 3 = 4$
 ⑩ $1 - 2 - 3 = -4$

正負の数 項という考えによる計算 1+a 解答編

次の計算を、すべて項を考えることによって行いなさい。

I	II
① $0 - 3 = -3$	① $2 + 1 - 8 = -5$
② $-4 + 4 = 0$	② $-5 + 2 - 6 = -9$
③ $-3 + 0 = -3$	③ $-3 + 4 - 9 = -8$
④ $7 + 0 = 7$	④ $5 + 4 - 9 = 0$
⑤ $0 + 9 = 9$	⑤ $-2 - 3 + 6 = 1$
⑥ $-4 + 0 = -4$	⑥ $-4 - 2 - 6 = -12$
⑦ $1 + 0 = 1$	⑦ $-3 - 1 + 5 = 1$
⑧ $-9 - 0 = -9$	⑧ $-5 + 7 - 2 = 0$
⑨ $8 - 8 = 0$	⑨ $5 - 7 - 5 = -7$
⑩ $0 + 0 = 0$	⑩ $2 - 5 + 1 = -2$
⑪ $0 - 8 = -8$	⑪ $-7 + 4 + 2 = -1$
⑫ $-3 + 3 = 0$	⑫ $-4 - 9 + 7 = -6$
⑬ $-3 + 0 + 3 = 0$	⑬ $-8 + 7 - 2 = -3$
⑭ $4 + 0 = 4$	⑭ $2 - 9 + 6 = -1$
⑮ $0 + 6 = 6$	⑮ $-8 + 0 + 7 = -1$
⑯ $-5 + 0 = -5$	⑯ $-1 + 4 - 5 = -2$
⑰ $5 + 0 = 5$	⑰ $1 - 0 - 3 = -2$
⑱ $-5 - 0 = -5$	⑱ $-1 + 2 - 3 = -2$
⑲ $5 - 5 = 0$	⑲ $-1 + 2 - 3 = -2$
⑳ $0 + 0 = 0$	㉑ $1 + 2 - 3 = 0$

Ⅲ (正の数どうし負の数どうしを先にまとめて計算してみました。)
 (ほかにもいろいろな考え方で計算できます。また、打ち消し合う数
 (合計が0になる数)を見つけて消してしまう方が早いです。)

① $2 + 1 - 8 - 7 + 4 + 2 - 1 + 2 = 11 - 16 = -5$
② $-5 + 2 - 6 - 4 - 9 + 7 - 1 + 2 = 11 - 25 = -14$
③ $-3 + 4 - 9 - 8 + 7 - 1 + 2 = 13 - 21 = -8$
④ $5 + 4 - 9 - 2 - 9 + 6 = 15 - 20 = -5$
⑤ $-2 - 3 + 6 - 8 + 0 + 7 + 4 + 2 = 19 - 13 = 6$
⑥ $-4 - 2 - 6 - 1 + 4 - 5 - 9 + 7 = 11 - 27 = -16$
⑦ $-3 - 7 + 6 - 0 - 3 + 7 - 2 = 13 - 15 = -2$
⑧ $-5 + 7 - 2 - 6 + 2 - 9 + 6 = 15 - 22 = -7$
⑨ $5 - 7 - 5 - 1 + 2 - 3 + 0 + 7 = 14 - 16 = -2$
⑩ $2 + 5 + 1 - 2 - 3 + 4 - 5 = 12 - 10 = 2$

正負の数 項という考えによる計算 2 (かっこはずしの練習)

解答編

I. 次の計算をすべて一度かっこのない式にして、項という考えで計算しなさい。

$$\begin{aligned} \textcircled{1} 8 + (+4) &= 8 + 4 = 12 \\ \textcircled{2} -9 + (-11) &= -9 - 11 = -20 \\ \textcircled{3} 7 + (+6) - 9 &= 7 + 6 - 9 = 4 \\ \textcircled{4} 15 + (+4) &= 15 + 4 = 19 \\ \textcircled{5} (-9) + (-2) &= -9 - 2 = -11 \\ \textcircled{6} -10 + (-7) &= -10 - 7 = -17 \\ \textcircled{7} -8 - (-6) &= -8 + 6 = -2 \\ \textcircled{8} (-9) - (+6) &= -9 - 6 = -15 \\ \textcircled{9} (+11) + (-8) &= 11 - 8 = 3 \\ \textcircled{10} +12 + (-16) &= 12 - 16 = -4 \\ \textcircled{11} -15 - (+8) &= -15 - 8 = -23 \\ \textcircled{12} -15 + (+15) &= -15 + 15 = 0 \\ \textcircled{13} (+13) - (-10) &= 13 + 10 = 23 \\ \textcircled{14} 14 + (-11) &= 14 - 11 = 3 \\ \textcircled{15} -8 - (+16) &= -8 - 16 = -24 \\ \textcircled{16} 0 + (+7) &= 0 + 7 = 7 \\ \textcircled{17} 0 - (+9) &= 0 - 9 = -9 \\ \textcircled{18} -13 + (-7) &= -13 - 7 = -20 \\ \textcircled{19} -18 - (+10) &= -18 - 10 = -28 \\ \textcircled{20} 19 - (-14) &= 19 + 14 = 33 \end{aligned}$$

II. 次の計算をすべて一度かっこのない式にして、項という考えで計算しなさい。

$$\begin{aligned} \textcircled{1} (-15) + 0 &= -15 + 0 = -15 \\ \textcircled{2} (+19) + 0 &= 19 + 0 = 19 \\ \textcircled{3} 0 + (-18) &= 0 - 18 = -18 \\ \textcircled{4} 0 + (+14) &= 0 + 14 = 14 \\ \textcircled{5} (-28) + (+16) - 9 &= -28 + 16 - 9 = -21 \\ \textcircled{6} -14 + (-27) + 12 &= -14 - 27 + 12 = -29 \\ \textcircled{7} (+11) + (+9) - 15 &= 11 + 9 - 15 = 5 \\ \textcircled{8} 2 - (-13) + (-7) &= 2 + 13 - 7 = 8 \\ \textcircled{9} 1 + (-18) + (+9) - 10 &= 1 - 18 + 9 - 10 = -18 \\ \textcircled{10} (+9) - 8 + (-4) &= 9 - 8 - 4 = -3 \end{aligned}$$

正負の数 項という考えによる計算2+a(かっこはずしの練習)

解答編

I. 次の計算をなさい。

- ① $8 + (+9) = 8 + 9 = 17$
 ② $-9 + (-15) = -9 - 15 = -24$
 ③ $7 + (+1) - 9 = 7 + 1 - 9 = -1$
 ④ $15 + (-9) = 15 - 9 = 6$
 ⑤ $(-9) + (-3) = -9 - 3 = -12$
 ⑥ $-10 - (-7) = -10 + 7 = -3$
 ⑦ $-8 - (-9) = -8 + 9 = 1$
 ⑧ $(-9) - (+4) = -9 - 4 = -13$
 ⑨ $(-11) + (-8) = -11 - 8 = -19$
 ⑩ $+12 + (-12) = 12 - 12 = 0$
 ⑪ $-15 - (+7) = -15 - 7 = -22$
 ⑫ $-15 + (+15) = -15 + 15 = 0$
 ⑬ $(+13) - (-11) = 13 + 11 = 24$
 ⑭ $14 + (-18) = 14 - 18 = -4$
 ⑮ $-8 - (+11) = -8 - 11 = -19$
 ⑯ $0 + (+7) = 0 + 7 = 7$
 ⑰ $0 - (+7) = 0 - 7 = -7$
 ⑱ $-13 - (-7) = -13 + 7 = -6$
 ⑲ $-10 - (+10) = -10 - 10 = -20$
 ⑳ $12 - (-14) = 12 + 14 = 26$

II. 次の計算をなさい。

- ① $(-15) + 0 - (-16) = -15 + 16 = 1$
 ② $(+19) + 0 - 22 = 19 - 22 = -3$
 ③ $0 + (-18) = 0 - 18 = -18$
 ④ $0 + (+14) = 0 + 14 = 14$
 ⑤ $(-18) + (+16) - 9 = -18 + 16 - 9 = -11$
 ⑥ $-14 + (-27) + 12 = -14 - 27 + 12 = -29$
 ⑦ $(+10) - (-9) - 15 = 10 + 9 - 15 = 4$
 ⑧ $2 - (-13) + (-7) = 2 + 13 - 7 = 8$
 ⑨ $1 + (-18) - (+9) - 10 = 1 - 18 - 9 - 10 = -36$
 ⑩ $(+9) - 8 - (-4) = 9 - 8 + 4 = 5$