

1 仮分数と帯分数

P1・2

- 1 ① ア $\frac{3}{2}$ ① $\frac{5}{2}$
 ② カ $1\frac{1}{2}$ ② キ $2\frac{1}{2}$
 ③ ク $\frac{4}{3}$ ③ ケ $\frac{7}{3}$ ④ コ $\frac{9}{3}$
 ⑤ ケ $1\frac{1}{3}$ ⑤ コ $2\frac{1}{3}$

- 2 ① $1\frac{3}{4}$, 1 あまり 3

- ② 4, 4
 ③ $2\frac{5}{6}$ ④ 5

- 3 ① 7, 7
 ② 8, 8
 ③ $\frac{16}{7}$ ④ $\frac{29}{8}$

2 分母が同じ分数のたし算①

P3・4

- 1 ① 4
 ② 5
 ③ 6 ④ 7
 ⑤ 7

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

- 3 ① 3, 1
 ② 2, 1 ③ 12, 1

- 4 ① $\frac{2}{3}$

$$\textcircled{2} \frac{6}{4} = 1\frac{2}{4}$$

$$\textcircled{3} \frac{5}{5} = 1$$

$$\textcircled{4} \frac{11}{7} = 1\frac{4}{7}$$

$$\textcircled{5} \frac{14}{10} = 1\frac{4}{10}$$

3 分母が同じ分数のたし算②

P5・6

$$\textcircled{1} 2\frac{3}{4}$$

$$\textcircled{2} 7\frac{2}{3}$$

$$\textcircled{3} 4\frac{3}{5}$$

$$\textcircled{2} 2\frac{4}{5}$$

$$\textcircled{2} 3\frac{5}{8}$$

$$\textcircled{3} 5\frac{5}{6}$$

$$\textcircled{2} 6\frac{1}{2}$$

$$\textcircled{4} 6\frac{5}{6}$$

$$\textcircled{5} 3\frac{5}{7}$$

$$\textcircled{6} 3\frac{8}{9}$$

$$\textcircled{3} 1\frac{5}{9}$$

$$\textcircled{4} 2\frac{7}{10}$$

$$\textcircled{3} 6\frac{2}{3}$$

$$\textcircled{4} 5\frac{3}{4}$$

4 分母が同じ分数のたし算③

P7・8

$$\textcircled{1} 2\frac{5}{4}, 3\frac{1}{4}$$

$$\textcircled{2} 4, 1$$

$$\textcircled{3} 7, 2$$

$$\textcircled{2} 1, 2$$

$$\textcircled{2} 2, 3$$

$$\textcircled{3} 1, 2$$

$$\textcircled{4} 4, 2$$

$$\textcircled{4} 8, 5\frac{2}{6}$$

$$\textcircled{5} 10, 5\frac{3}{7}$$

$$\textcircled{6} 14, 5\frac{5}{9}$$

$$\textcircled{5} 6, 3$$

$$\textcircled{6} 7, 5$$

$$\textcircled{7} 2\frac{8}{8}, 3$$

$$\textcircled{8} 3\frac{12}{12}, 4$$

5

分母が同じ分数のひき算①

P9・10

- 1 ① 1
② 1
③ 3

- ④ 2
⑤ 6

- 2 ① 2
② 2
③ 4

- ④ 4
⑤ 6

- 3 ① 2
② 1
③ 3

- ④ 1
⑤ 5

- 4 ① $\frac{4}{6}$
② $\frac{6}{7}$
③ $\frac{5}{8}$

- ④ $\frac{4}{9}$
⑤ $\frac{7}{10}$

6

分母が同じ分数のひき算②

P11・12

- 1 ① $1\frac{2}{5}$ ② $2\frac{1}{3}$ ③ $2\frac{2}{7}$

- 2 ① $3\frac{1}{4}$ ② 2 ③ $1\frac{3}{12}$

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

- 4 ① $1\frac{1}{2}$
② $\frac{1}{6}$
③ $4\frac{3}{7}$
④ $1\frac{2}{8}$

- ⑤ $5\frac{3}{9}$
⑥ $2\frac{3}{10}$
⑦ $2\frac{9}{11}$

7

分母が同じ分数のひき算③

P13・14

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

2 ① $3\frac{8}{5} - 2\frac{4}{5} = 1\frac{4}{5}$

② $2\frac{8}{6} - 1\frac{5}{6} = 1\frac{3}{6}$

③ $\frac{10}{7} - \frac{5}{7} = \frac{5}{7}$

④ $2\frac{10}{8} - 2\frac{5}{8} = \frac{5}{8}$

⑤ $1\frac{13}{9} - \frac{7}{9} = 1\frac{6}{9}$

⑥ $2\frac{13}{10} - 1\frac{7}{10} = 1\frac{6}{10}$

⑦ $1\frac{19}{12} - 1\frac{11}{12} = \frac{8}{12}$

8

約分①

P15・16

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

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

- 3 ① $\frac{1}{3}$ ⑥ $\frac{2}{3}$
② $\frac{2}{5}$ ⑦ $\frac{1}{4}$
③ $\frac{1}{2}$ ⑧ $\frac{7}{12}$
④ $\frac{1}{6}$ ⑨ $\frac{2}{5}$
⑤ $\frac{5}{6}$ ⑩ $\frac{1}{6}$

9

約分②

P17・18

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

2 ① $2, \frac{3}{4}$ ② $5, \frac{1}{2}$ ③ $7, \frac{1}{2}$

3 ① $\frac{1}{4}$ ⑥ $\frac{1}{3}$
 ② $\frac{1}{7}$ ⑦ $\frac{2}{3}$
 ③ $\frac{1}{2}$ ⑧ $\frac{2}{7}$
 ④ $\frac{1}{5}$ ⑨ $\frac{3}{5}$
 ⑤ $\frac{3}{5}$ ⑩ $\frac{4}{5}$

10

約分③

P19・20

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

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

3 ① 2 ④ 4
 ② 3 ⑤ 4
 ③ 3 ⑥ 7

4 ① $\frac{1}{2}$ ⑥ $\frac{1}{2}$
 ② $\frac{3}{4}$ ⑦ $\frac{1}{4}$
 ③ $\frac{1}{3}$ ⑧ $\frac{1}{3}$
 ④ $\frac{2}{3}$ ⑨ $\frac{2}{3}$
 ⑤ $\frac{1}{5}$ ⑩ $\frac{3}{4}$

11

約分④

P21・22

1 ① 15, 3, 1

② 20, 1

③ 45, 3

④ 10, 1

⑤ 30, 1

⑥ 48, 4

2 ① $\frac{1}{4}$

② $\frac{1}{4}$

③ $\frac{1}{4}$

④ $\frac{1}{3}$

⑤ $\frac{1}{2}$

⑥ $\frac{2}{3}$

⑦ $\frac{1}{3}$

⑧ $\frac{1}{6}$

⑨ $\frac{3}{4}$

⑩ $\frac{3}{5}$

⑪ $\frac{4}{5}$

⑫ $\frac{4}{5}$

⑬ $\frac{4}{5}$

⑭ $\frac{4}{5}$

12

通分①

P23・24

1 ① 2

② 3

③ 4

④ 5

⑤ 6

2 ① 4

② 15

③ 6

④ 14

⑤ 16

⑥ 21

⑥ 6

⑦ 9

⑧ 12

⑨ 15

⑦ 40

⑧ 16

⑨ 14

⑩ 20

⑪ 36

13 通分②

P25・26

① 16, 20, 24, 28, 32

② 18, 24, 30, 36, 42

③ 12, 24, 36, 48, 60

④ 18, 36, 54, 72

⑤ 8, 16, 24, 32

② ① 18

② 8

③ ① 6

② 12

③ 24

④ 6

⑤ 15

⑥ 9

⑦ 12

⑧ 24

14 通分③

P27・28

① $\left(\frac{3}{12}, \frac{8}{12}\right)$

② $\left(\frac{5}{20}, \frac{8}{20}\right)$

③ $\left(\frac{9}{12}, \frac{10}{12}\right)$

④ $\left(\frac{9}{24}, \frac{10}{24}\right)$

⑤ $\left(\frac{9}{6}, \frac{8}{6}\right)$

⑥ $\left(1\frac{8}{12}, 1\frac{7}{12}\right)$

② ① $\left(\frac{3}{6}, \frac{4}{6}\right)$

② $\left(\frac{6}{10}, \frac{5}{10}\right)$

③ $\left(\frac{4}{12}, \frac{9}{12}\right)$

④ $\left(\frac{12}{30}, \frac{5}{30}\right)$

⑤ $\left(\frac{3}{18}, \frac{4}{18}\right)$

⑥ $\left(\frac{9}{15}, \frac{7}{15}\right)$

⑦ $\left(\frac{28}{20}, \frac{25}{20}\right)$

⑧ $\left(1\frac{4}{24}, 1\frac{3}{24}\right)$

15 分母がちがう分数のたし算①

P29・30

① 2, 3

② 4, 5

③ 3, 5

④ 2, 3

⑤ 4, 7

⑥ 4, 7

② ① $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

② $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

③ $\frac{2}{10} + \frac{1}{10} = \frac{3}{10}$

④ $\frac{1}{10} + \frac{8}{10} = \frac{9}{10}$

⑤ $\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$

⑥ $\frac{4}{12} + \frac{7}{12} = \frac{11}{12}$

⑦ $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$

⑧ $\frac{9}{15} + \frac{4}{15} = \frac{13}{15}$

16 分母がちがう分数のたし算②

P31・32

① 3, 2, 5

② 8, 3, 11

③ 4, 15, 19

④ 6, 5, 11

⑤ 5, 18, 23

⑥ 4, 5, 9

② ① $\frac{12}{20} + \frac{5}{20} = \frac{17}{20}$

② $\frac{7}{21} + \frac{12}{21} = \frac{19}{21}$

③ $\frac{3}{24} + \frac{16}{24} = \frac{19}{24}$

④ $\frac{10}{30} + \frac{9}{30} = \frac{19}{30}$

⑤ $\frac{10}{35} + \frac{21}{35} = \frac{31}{35}$

⑥ $\frac{8}{36} + \frac{27}{36} = \frac{35}{36}$

⑦ $\frac{30}{42} + \frac{7}{42} = \frac{37}{42}$

⑧ $\frac{9}{45} + \frac{20}{45} = \frac{29}{45}$

17

分母がちがう分数のたし算③

P33・34

- ① 3, 2, 5 ③ 3, 20, 23
② 15, 2, 17 ④ 10, 9, 19

- ① $\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$ ⑤ $\frac{3}{24} + \frac{4}{24} = \frac{7}{24}$
② $\frac{3}{18} + \frac{4}{18} = \frac{7}{18}$ ⑥ $\frac{4}{24} + \frac{9}{24} = \frac{13}{24}$
③ $\frac{8}{18} + \frac{3}{18} = \frac{11}{18}$ ⑦ $\frac{9}{24} + \frac{2}{24} = \frac{11}{24}$
④ $\frac{6}{20} + \frac{5}{20} = \frac{11}{20}$ ⑧ $\frac{4}{36} + \frac{3}{36} = \frac{7}{36}$

18

分母がちがう分数のたし算④

P35・36

- ① 25, 3, 28, 14
② 3, 4, 2
③ 8, 9, 3
④ 3, 2, 5
⑤ 8, 15, 3

- ① $\frac{2}{10} + \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$
② $\frac{4}{12} + \frac{5}{12} = \frac{9}{12} = \frac{3}{4}$
③ $\frac{5}{12} + \frac{3}{12} = \frac{8}{12} = \frac{2}{3}$
④ $\frac{5}{18} + \frac{4}{18} = \frac{9}{18} = \frac{1}{2}$
⑤ $\frac{3}{20} + \frac{5}{20} = \frac{8}{20} = \frac{2}{5}$
⑥ $\frac{4}{20} + \frac{1}{20} = \frac{5}{20} = \frac{1}{4}$
⑦ $\frac{3}{30} + \frac{22}{30} = \frac{25}{30} = \frac{5}{6}$
⑧ $\frac{5}{30} + \frac{3}{30} = \frac{8}{30} = \frac{4}{15}$

19

分母がちがう分数のたし算⑤

P37・38

- ① 3, 10, 13, 1
② 10, 9, 19, 4
③ 3, 8, 4, 1
④ 4, 15, 5, 1

- ① $\frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}$
② $\frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$
③ $\frac{9}{12} + \frac{4}{12} = \frac{13}{12} = 1\frac{1}{12}$
④ $\frac{16}{20} + \frac{5}{20} = \frac{21}{20} = 1\frac{1}{20}$
⑤ $\frac{4}{6} + \frac{5}{6} = \frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$
⑥ $\frac{15}{20} + \frac{7}{20} = \frac{22}{20} = \frac{11}{10} = 1\frac{1}{10}$
⑦ $\frac{9}{30} + \frac{25}{30} = \frac{34}{30} = \frac{17}{15} = 1\frac{2}{15}$
⑧ $\frac{13}{15} + \frac{5}{15} = \frac{18}{15} = \frac{6}{5} = 1\frac{1}{5}$

20

分母がちがう分数のたし算⑥

P39・40

- ① 3, 2, 5
② 5, 12, 17
③ 2, 3, 1
④ 5, 8, 4

- ① $3\frac{1}{4} + 2\frac{2}{4} = 5\frac{3}{4}$
② $1\frac{5}{10} + 1\frac{4}{10} = 2\frac{9}{10}$
③ $2\frac{3}{12} + 1\frac{8}{12} = 3\frac{11}{12}$
④ $1\frac{9}{12} + 3\frac{2}{12} = 4\frac{11}{12}$
⑤ $1\frac{4}{10} + 2\frac{1}{10} = 3\frac{5}{10} = 3\frac{1}{2}$

$$\begin{aligned} \textcircled{6} \quad & 2\frac{1}{12} + 2\frac{9}{12} = 4\frac{10}{12} = 4\frac{5}{6} \\ \textcircled{7} \quad & 1\frac{5}{15} + 1\frac{1}{15} = 2\frac{6}{15} = 2\frac{2}{5} \\ \textcircled{8} \quad & 1\frac{8}{21} + 2\frac{6}{21} = 3\frac{14}{21} = 3\frac{2}{3} \end{aligned}$$

21 分母がちがう分数のたし算⑦

P41・42

- 1 ① 4, 9, 13, 1
② 3, 4, 7, 1
③ 14, 25, 39, 13, 3

2 ① $1\frac{4}{8} + \frac{5}{8} = 1\frac{9}{8} = 2\frac{1}{8}$
② $\frac{15}{20} + 3\frac{8}{20} = 3\frac{23}{20} = 4\frac{3}{20}$
③ $\frac{16}{24} + 3\frac{9}{24} = 3\frac{25}{24} = 4\frac{1}{24}$
④ $3\frac{15}{18} + 1\frac{14}{18} = 4\frac{29}{18} = 5\frac{11}{18}$
⑤ $3\frac{4}{6} + \frac{5}{6} = 3\frac{9}{6} = 3\frac{3}{2} = 4\frac{1}{2}$
⑥ $2\frac{5}{10} + \frac{7}{10} = 2\frac{12}{10} = 2\frac{6}{5} = 3\frac{1}{5}$
⑦ $2\frac{9}{12} + 1\frac{5}{12} = 3\frac{14}{12} = 3\frac{7}{6} = 4\frac{1}{6}$

22 分母がちがう分数のひき算①

P43・44

1 ① 2, 1 ④ 8, 7
② 2, 1 ⑤ 3, 1
③ 4, 1 ⑥ 10, 5

2 ① $\frac{2}{6} - \frac{1}{6} = \frac{1}{6}$ ⑤ $\frac{3}{9} - \frac{1}{9} = \frac{2}{9}$
② $\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$ ⑥ $\frac{6}{9} - \frac{2}{9} = \frac{4}{9}$
③ $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$ ⑦ $\frac{20}{30} - \frac{3}{30} = \frac{17}{30}$
④ $\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$

23 分母がちがう分数のひき算②

P45・46

- 1 ① 5, 4, 1 ④ 15, 4, 11
② 9, 2, 7 ⑤ 16, 15, 1
③ 10, 3, 7 ⑥ 35, 12, 23

2 ① $\frac{5}{10} - \frac{2}{10} = \frac{3}{10}$ ⑤ $\frac{5}{20} - \frac{4}{20} = \frac{1}{20}$
② $\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$ ⑥ $\frac{15}{12} - \frac{4}{12} = \frac{11}{12}$
③ $\frac{9}{15} - \frac{5}{15} = \frac{4}{15}$ ⑦ $\frac{20}{18} - \frac{15}{18} = \frac{5}{18}$
④ $\frac{5}{15} - \frac{3}{15} = \frac{2}{15}$

24 分母がちがう分数のひき算③

P47・48

- 1 ① 4, 3, 1
② 3, 2, 1
③ 27, 25, 2, 1
④ 3, 2, 1
⑤ 12, 5, 1
⑥ 3, 10, 5

2 ① $\frac{5}{10} - \frac{1}{10} = \frac{4}{10} = \frac{2}{5}$
② $\frac{8}{10} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$
③ $\frac{7}{10} - \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$
④ $\frac{11}{10} - \frac{6}{10} = \frac{5}{10} = \frac{1}{2}$
⑤ $\frac{14}{15} - \frac{5}{15} = \frac{9}{15} = \frac{3}{5}$
⑥ $\frac{7}{20} - \frac{5}{20} = \frac{2}{20} = \frac{1}{10}$
⑦ $\frac{35}{30} - \frac{21}{30} = \frac{14}{30} = \frac{7}{15}$

25 分母がちがう分数のひき算④

P49・50

1 ① 3, 2, 1

② 4, 3, 1

③ 10, 3, 7

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

② $3\frac{3}{9} - 1\frac{2}{9} = 2\frac{1}{9}$

③ $2\frac{5}{10} - 1\frac{3}{10} = 1\frac{2}{10} = 1\frac{1}{5}$

④ $4\frac{7}{10} - 2\frac{5}{10} = 2\frac{2}{10} = 2\frac{1}{5}$

⑤ $3\frac{5}{20} - 1\frac{2}{20} = 2\frac{3}{20}$

⑥ $2\frac{20}{24} - 1\frac{3}{24} = 1\frac{17}{24}$

⑦ $2\frac{21}{28} - 1\frac{20}{28} = 1\frac{1}{28}$

26 分母がちがう分数のひき算⑤

P51・52

1 ① 3, 4, 9, 4

② 6, 25, 36, 25, 11

2 ① $2\frac{3}{9} - \frac{7}{9} = 1\frac{12}{9} - \frac{7}{9} = 1\frac{5}{9}$

② $1\frac{1}{8} - \frac{6}{8} = \frac{9}{8} - \frac{6}{8} = \frac{3}{8}$

③ $1\frac{5}{15} - \frac{6}{15} = \frac{20}{15} - \frac{6}{15} = \frac{14}{15}$

④ $3\frac{3}{21} - \frac{7}{21} = 2\frac{24}{21} - \frac{7}{21} = 2\frac{17}{21}$

⑤ $4\frac{4}{6} - 2\frac{5}{6} = 3\frac{10}{6} - 2\frac{5}{6} = 1\frac{5}{6}$

⑥ $3\frac{2}{15} - 1\frac{9}{15} = 2\frac{17}{15} - 1\frac{9}{15} = 1\frac{8}{15}$

⑦ $2\frac{3}{12} - 1\frac{8}{12} = 1\frac{15}{12} - 1\frac{8}{12} = \frac{7}{12}$

⑧ $3\frac{4}{24} - \frac{15}{24} = 2\frac{28}{24} - \frac{15}{24} = 2\frac{13}{24}$

27 分母がちがう分数のひき算⑥

P53・54

1 ① 4, 7, 4, 3, 1

② 5, 15, 5, 10, 5

2 ① $1\frac{2}{6} - \frac{5}{6} = \frac{8}{6} - \frac{5}{6} = \frac{3}{6} = \frac{1}{2}$

② $1\frac{4}{10} - \frac{9}{10} = \frac{14}{10} - \frac{9}{10} = \frac{5}{10} = \frac{1}{2}$

③ $1\frac{4}{12} - \frac{7}{12} = \frac{16}{12} - \frac{7}{12} = \frac{9}{12} = \frac{3}{4}$

④ $1\frac{1}{15} - \frac{10}{15} = \frac{16}{15} - \frac{10}{15} = \frac{6}{15} = \frac{2}{5}$

⑤ $4\frac{5}{18} - 2\frac{9}{18} = 3\frac{23}{18} - 2\frac{9}{18}$
 $= 1\frac{14}{18} = 1\frac{7}{9}$

⑥ $3\frac{2}{15} - 1\frac{12}{15} = 2\frac{17}{15} - 1\frac{12}{15} = 1\frac{5}{15}$
 $= 1\frac{1}{3}$

⑦ $5\frac{3}{6} - 2\frac{5}{6} = 4\frac{9}{6} - 2\frac{5}{6} = 2\frac{4}{6} = 2\frac{2}{3}$

⑧ $2\frac{3}{30} - \frac{25}{30} = 1\frac{33}{30} - \frac{25}{30} = 1\frac{8}{30} = 1\frac{4}{15}$

1 ① $\frac{3}{4}$

② $\frac{5}{6}$

③ $\frac{1}{3}$

④ $\frac{2}{5}$

2 ① $\frac{8}{7} = 1\frac{1}{7}$

② $2\frac{6}{5} = 3\frac{1}{5}$

③ $\frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

④ $\frac{9}{12} + \frac{10}{12} = \frac{19}{12} = 1\frac{7}{12}$

⑤ $1\frac{21}{30} + \frac{25}{30} = 1\frac{46}{30} = 1\frac{23}{15} = 2\frac{8}{15}$

3 ① $\left(\frac{3}{9}, \frac{4}{9}\right)$

② $\left(\frac{8}{12}, \frac{9}{12}\right)$

③ $\left(\frac{15}{20}, \frac{16}{20}\right)$

④ $\left(\frac{48}{56}, \frac{49}{56}\right)$

4 ① $\frac{3}{9} = \frac{1}{3}$

② $\frac{6}{5} - \frac{2}{5} = \frac{4}{5}$

③ $\frac{4}{12} - \frac{3}{12} = \frac{1}{12}$

④ $3\frac{6}{15} - \frac{10}{15} = 2\frac{21}{15} - \frac{10}{15} = 2\frac{11}{15}$

⑤ $2\frac{4}{12} - 1\frac{7}{12} = 1\frac{16}{12} - 1\frac{7}{12}$

$= \frac{9}{12} = \frac{3}{4}$

