

1 仮分数・帯分数

P.1・2

- | | | | |
|----|--------------------|----|--------------------|
| 1 | 1 $\frac{2}{3}$ | 11 | 1 |
| 2 | 1 $\frac{2}{7}$ | 12 | $2\frac{1}{3}$ |
| 3 | 1 $\frac{3}{5}$ | 13 | $2\frac{1}{2}$ |
| 4 | 2 | 14 | $1\frac{7}{9}$ |
| 5 | 1 $\frac{4}{9}$ | 15 | $1\frac{6}{7}$ |
| 6 | 1 $\frac{1}{8}$ | 16 | 2 |
| 7 | 2 | 17 | 1 $\frac{1}{4}$ |
| 8 | 2 | 18 | $2\frac{1}{5}$ |
| 9 | 1 $\frac{4}{11}$ | 19 | 1 $\frac{4}{7}$ |
| 10 | 1 $\frac{1}{6}$ | 20 | 1 $\frac{6}{11}$ |
-
- | | | | |
|---|-------------------|---|--------------------|
| 2 | 1 $\frac{5}{5}$ | 5 | 1 $\frac{18}{9}$ |
| 2 | 1 $\frac{6}{6}$ | 6 | 1 $\frac{8}{8}$ |
| 3 | 1 $\frac{6}{3}$ | 7 | 1 $\frac{7}{7}$ |
| 4 | 1 $\frac{8}{4}$ | 8 | 1 $\frac{14}{7}$ |
-
- | | | | |
|---|-------------------|----|-----------------|
| 3 | 1 $\frac{7}{4}$ | 7 | $\frac{7}{3}$ |
| 2 | $\frac{8}{3}$ | 8 | $\frac{14}{9}$ |
| 3 | $\frac{9}{5}$ | 9 | $\frac{15}{8}$ |
| 4 | $\frac{13}{6}$ | 10 | $\frac{9}{4}$ |
| 5 | $\frac{3}{2}$ | 11 | $\frac{13}{7}$ |
| 6 | $\frac{11}{7}$ | 12 | $\frac{14}{11}$ |

2 同分母分数のたし算

P.3・4

- | | | | |
|---|--------------------------------|----|-----------------------------------|
| 1 | 1 $\frac{2}{3}$ | 6 | $\frac{6}{7}$ |
| 2 | 1 | 7 | 1 $\frac{4}{7}(\frac{11}{7})$ |
| 3 | $\frac{4}{5}$ | 8 | $\frac{7}{9}$ |
| 4 | 1 | 9 | 1 $\frac{4}{9}(\frac{13}{9})$ |
| 5 | 1 $\frac{3}{5}(\frac{8}{5})$ | 10 | 1 $\frac{5}{11}(\frac{16}{11})$ |
-
- | | | | |
|---|----------------------------------|----|--------------------------------|
| 2 | 1 $3\frac{5}{8}(\frac{29}{8})$ | 6 | $4\frac{1}{9}(\frac{37}{9})$ |
| 2 | $5\frac{1}{4}(\frac{21}{4})$ | 7 | $5\frac{4}{5}(\frac{29}{5})$ |
| 3 | $2\frac{3}{5}(\frac{13}{5})$ | 8 | $7\frac{5}{7}(\frac{54}{7})$ |
| 4 | $3\frac{5}{7}(\frac{26}{7})$ | 9 | $10\frac{4}{7}(\frac{74}{7})$ |
| 5 | 5 | 10 | $6\frac{3}{11}(\frac{69}{11})$ |

アドバイス

こた かぶんすう たいぶん
 答えが仮分数になるとき、帯分
 すう ちお おお
 数に直すと大きさがわかりやすくなります。

3 同分母分数のひき算

P.5・6

- | | | | |
|---|-------------------|----|------------------------------|
| 1 | 1 $\frac{1}{3}$ | 6 | $3\frac{1}{5}(\frac{16}{5})$ |
| 2 | $\frac{2}{5}$ | 7 | $4\frac{4}{7}(\frac{32}{7})$ |
| 3 | $\frac{3}{7}$ | 8 | $5\frac{4}{9}(\frac{49}{9})$ |
| 4 | 0 | 9 | $3\frac{2}{7}(\frac{23}{7})$ |
| 5 | $\frac{5}{9}$ | 10 | $\frac{7}{9}$ |
-
- | | | | |
|---|---------------------------------|----|------------------------------|
| 2 | 1 $\frac{5}{8}$ | 6 | $3\frac{2}{3}(\frac{11}{3})$ |
| 2 | 4 | 7 | $2\frac{3}{5}(\frac{13}{5})$ |
| 3 | $\frac{2}{5}$ | 8 | $2\frac{3}{5}(\frac{13}{5})$ |
| 4 | $2\frac{7}{8}(\frac{23}{8})$ | 9 | $2\frac{3}{7}(\frac{17}{7})$ |
| 5 | 1 $\frac{5}{6}(\frac{11}{6})$ | 10 | $\frac{6}{11}$ |

4 チェックテスト

P.7・8

- 1 ① $1\frac{2}{9}$ ④ $2\frac{2}{5}$
 ② $2\frac{2}{3}$ ⑤ 4
 ③ $3\frac{3}{4}$ ⑥ $2\frac{8}{11}$
- 2 ① $\frac{7}{5}$ ③ $\frac{11}{4}$
 ② $\frac{13}{9}$ ④ $\frac{32}{9}$
- 3 ① $\frac{6}{7}$ ③ $\frac{8}{11}$
 ② 1 ④ $1\frac{4}{7}(\frac{11}{7})$
- 4 ① $9\frac{5}{8}(\frac{77}{8})$ ③ $2\frac{1}{7}(\frac{15}{7})$
 ② $3\frac{7}{9}(\frac{34}{9})$ ④ $4\frac{2}{11}(\frac{46}{11})$
- 5 ① $\frac{1}{9}$ ⑤ $\frac{1}{6}$
 ② $\frac{1}{3}$ ⑥ $1\frac{1}{9}(\frac{10}{9})$
 ③ $\frac{5}{7}$ ⑦ $3\frac{5}{9}(\frac{32}{9})$
 ④ $2\frac{4}{7}(\frac{18}{7})$ ⑧ $5\frac{2}{5}(\frac{27}{5})$

アドバイス

● **85点から100点の人**

まちがえた問題をやり直してから、次のページに進みましょう。

● **75点から84点の人**

ここまでのページを、もう一度ふく習しておきましょう。

● **0点から74点の人**

『4年生 分数・小数』で、もう一度分数をふく習しておきましょう。

5 約分(1)

P.9・10

- 1 ① $\frac{2}{3}$ ⑤ $\frac{4}{7}$ ⑨ $\frac{1}{10}$
 ② $\frac{2}{5}$ ⑥ $\frac{5}{7}$ ⑩ $\frac{3}{10}$
 ③ $\frac{3}{5}$ ⑦ $\frac{3}{8}$
 ④ $\frac{2}{7}$ ⑧ $\frac{4}{9}$
- 2 ① $\frac{1}{2}$ ⑤ $\frac{3}{5}$ ⑨ $\frac{4}{9}$
 ② $\frac{1}{3}$ ⑥ $\frac{4}{5}$ ⑩ $\frac{8}{9}$
 ③ $\frac{3}{4}$ ⑦ $\frac{3}{7}$
 ④ $\frac{2}{5}$ ⑧ $\frac{7}{8}$
- 3 ① $\frac{1}{3}$ ⑪ $\frac{1}{7}$
 ② $\frac{1}{2}$ ⑫ $\frac{6}{7}$
 ③ $\frac{2}{3}$ ⑬ $\frac{4}{11}$
 ④ $\frac{3}{4}$ ⑭ $\frac{5}{12}$
 ⑤ $\frac{3}{5}$ ⑮ $\frac{5}{8}$
 ⑥ $\frac{5}{6}$ ⑯ $\frac{3}{13}$
 ⑦ $\frac{2}{5}$ ⑰ $\frac{2}{9}$
 ⑧ $\frac{7}{8}$ ⑱ $\frac{4}{15}$
 ⑨ $\frac{5}{9}$ ⑲ $\frac{3}{10}$
 ⑩ $\frac{5}{6}$ ⑳ $\frac{7}{10}$

6 約分(2)

P.11・12

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

7 約分(3)

P.13 · 14

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

- 3
- 1 $\frac{11}{2}$ 6 $\frac{1}{2}$
 - 2 $\frac{1}{3}$ 7 $\frac{1}{3}$
 - 3 $\frac{1}{4}$ 8 $\frac{2}{3}$
 - 4 $\frac{3}{4}$ 9 $\frac{3}{4}$
 - 5 $\frac{4}{5}$ 10 $\frac{3}{5}$

- 2
- 1 $\frac{3}{5}$ 6 $\frac{1}{19}$
 - 2 $\frac{7}{11}$ 7 $\frac{9}{13}$
 - 3 $\frac{7}{8}$ 8 $\frac{3}{8}$
 - 4 $\frac{11}{13}$ 9 $\frac{4}{9}$
 - 5 $\frac{14}{17}$ 10 $\frac{2}{7}$

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

9 約分(5)

P.17 · 18

- 1
- 1 $\frac{1}{3}$ 11 $\frac{1}{6}$
 - 2 $\frac{1}{4}$ 12 $\frac{3}{4}$
 - 3 $\frac{3}{4}$ 13 $\frac{2}{5}$
 - 4 $\frac{1}{3}$ 14 $\frac{2}{7}$
 - 5 $\frac{2}{3}$ 15 $\frac{4}{5}$
 - 6 $\frac{2}{3}$ 16 $\frac{5}{12}$
 - 7 $\frac{1}{4}$ 17 $\frac{11}{17}$
 - 8 $\frac{4}{7}$ 18 $\frac{1}{10}$
 - 9 $\frac{4}{5}$ 19 $\frac{5}{8}$
 - 10 $\frac{5}{6}$ 20 $\frac{3}{11}$

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

8 約分(4)

P.15 · 16

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

- 3
- 1 $\frac{1}{4}$ 11 $\frac{2}{5}$
 - 2 $\frac{1}{3}$ 12 $\frac{3}{5}$
 - 3 $\frac{1}{3}$ 13 $\frac{3}{5}$
 - 4 $\frac{5}{6}$ 14 $\frac{2}{3}$
 - 5 $\frac{1}{3}$ 15 $\frac{1}{6}$
 - 6 $\frac{2}{3}$ 16 $\frac{4}{5}$
 - 7 $\frac{1}{4}$ 17 $\frac{1}{8}$
 - 8 $\frac{5}{7}$ 18 $\frac{3}{5}$
 - 9 $\frac{2}{9}$ 19 $\frac{5}{6}$
 - 10 $\frac{1}{7}$ 20 $\frac{4}{7}$

10 約分(6)

P.19 · 20

- 1
- 1 $\frac{3}{5}$ 11 $\frac{1}{3}$
 - 2 $\frac{3}{4}$ 12 $\frac{2}{3}$
 - 3 $\frac{3}{4}$ 13 $\frac{1}{2}$
 - 4 $\frac{1}{2}$ 14 $\frac{2}{3}$
 - 5 $\frac{7}{10}$ 15 $\frac{1}{4}$
 - 6 $\frac{1}{3}$ 16 $\frac{11}{15}$
 - 7 $\frac{4}{5}$ 17 $\frac{2}{5}$
 - 8 $\frac{3}{5}$ 18 $\frac{4}{5}$
 - 9 $\frac{2}{7}$ 19 $\frac{7}{9}$
 - 10 $\frac{3}{4}$ 20 $\frac{1}{3}$

- 2
- 1 $\frac{4}{7}$ 11 $\frac{1}{4}$
 - 2 $\frac{2}{5}$ 12 $\frac{9}{10}$
 - 3 $\frac{3}{4}$ 13 $\frac{8}{9}$
 - 4 $\frac{3}{4}$ 14 $\frac{3}{8}$
 - 5 $\frac{4}{5}$ 15 $\frac{3}{4}$
 - 6 $\frac{3}{4}$ 16 $\frac{2}{5}$
 - 7 $\frac{2}{3}$ 17 $\frac{5}{6}$
 - 8 $\frac{3}{4}$ 18 $\frac{7}{9}$
 - 9 $\frac{2}{3}$ 19 $\frac{5}{7}$
 - 10 $\frac{1}{2}$ 20 $\frac{5}{6}$

11 約分(7)

P.21・22

- 1 ①6
②3
③6
- 2 ①5
②6
③10
- 3 ①6
②10
- 4 ①4 ③6
②6 ④8

- 5 ①4, $\frac{3}{5}$
②4, $\frac{5}{6}$
③6, $\frac{3}{4}$
④6, $\frac{2}{5}$
⑤15, $\frac{1}{2}$
⑥9, $\frac{2}{3}$
⑦8, $\frac{3}{4}$
⑧9, $\frac{3}{4}$
⑨12, $\frac{3}{4}$
⑩15, $\frac{3}{4}$

アドバイス

●最大公約数を求めるには、次のような方法もあります。

さいだいこうやくすう もと つぎ
最大公約数
〈例〉 (16, 20) → 4

《かんたんな公約数でわっていく》

↓ 2) 16, 20 ← 2でわる
↓ 2) 8, 10 ← 2でわる
4 5 ← これ以上われない

2 × 2 = 4 ← 最大公約数

12 分数のたし算(1)

P.23・24

- 1 ① $\frac{2}{8}$ ⑪ $\frac{4}{8}$ 2 ① $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$
② $\frac{3}{9}$ ⑫ $\frac{14}{21}$ ② $\frac{4}{5} + \frac{1}{10} = \frac{8}{10} + \frac{1}{10} = \frac{9}{10}$
③ $\frac{6}{9}$ ⑬ $\frac{21}{28}$ ③ $\frac{1}{5} + \frac{7}{10} = \frac{2}{10} + \frac{7}{10} = \frac{9}{10}$
④ $\frac{3}{15}$ ⑭ $\frac{24}{40}$ ④ $\frac{1}{4} + \frac{1}{8} = \frac{2}{8} + \frac{1}{8} = \frac{3}{8}$
⑤ $\frac{8}{20}$ ⑮ $\frac{30}{36}$ ⑤ $\frac{1}{4} + \frac{5}{8} = \frac{2}{8} + \frac{5}{8} = \frac{7}{8}$
⑥ $\frac{5}{35}$ ⑯ $\frac{32}{56}$ ⑥ $\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$
⑦ $\frac{18}{42}$ ⑰ $\frac{30}{80}$ ⑦ $\frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{5}{8}$
⑧ $\frac{15}{24}$ ⑱ $\frac{45}{72}$ ⑧ $\frac{1}{2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$
⑨ $\frac{4}{18}$ ⑲ $\frac{9}{81}$
⑩ $\frac{15}{27}$ ⑳ $\frac{28}{63}$

13 分数のたし算(2)

P.25・26

- 1 ① $\frac{3}{10} + \frac{2}{5} = \frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ ⑥ $\frac{1}{12} + \frac{2}{3} = \frac{1}{12} + \frac{8}{12} = \frac{9}{12} = \frac{3}{4}$
② $\frac{1}{10} + \frac{4}{5} = \frac{1}{10} + \frac{8}{10} = \frac{9}{10}$ ⑦ $\frac{1}{12} + \frac{3}{4} = \frac{1}{12} + \frac{9}{12} = \frac{10}{12} = \frac{5}{6}$
③ $\frac{7}{10} + \frac{1}{5} = \frac{7}{10} + \frac{2}{10} = \frac{9}{10}$ ⑧ $\frac{7}{12} + \frac{1}{6} = \frac{7}{12} + \frac{2}{12} = \frac{9}{12} = \frac{3}{4}$
④ $\frac{3}{10}$ ⑨ $\frac{5}{12}$
⑤ $\frac{9}{10}$ ⑩ $\frac{11}{12}$
- 2 ① $\frac{1}{4} + \frac{1}{6} = \frac{3}{12} + \frac{2}{12} = \frac{5}{12}$ ⑥ $\frac{3}{5} + \frac{7}{15} = \frac{9}{15} + \frac{7}{15} = \frac{16}{15} = 1\frac{1}{15}$
② $\frac{1}{6} + \frac{3}{4} = \frac{2}{12} + \frac{9}{12} = \frac{11}{12}$ ⑦ $\frac{4}{5} + \frac{1}{3} = \frac{12}{15} + \frac{5}{15} = \frac{17}{15} = 1\frac{2}{15}$
③ $\frac{1}{6} + \frac{1}{4} = \frac{2}{12} + \frac{3}{12} = \frac{5}{12}$ ⑧ $\frac{4}{15} + \frac{2}{3} = \frac{4}{15} + \frac{10}{15} = \frac{14}{15}$
④ $\frac{11}{12}$ ⑨ $1\frac{1}{15} \left(\frac{16}{15} \right)$
⑤ $\frac{7}{12}$ ⑩ $\frac{4}{5}$

14 分数のたし算(3)

P.27・28

1 ① $\frac{1}{2} + \frac{5}{8} = \frac{4}{8} + \frac{5}{8}$
 $= \frac{9}{8} = 1\frac{1}{8}$

⑥ $1\frac{4}{9} + \frac{13}{9}$

2 ① $\frac{3}{8} + \frac{11}{8}$

⑦ $1\frac{2}{9} + \frac{11}{9}$

③ $\frac{3}{8} + \frac{11}{8}$

⑧ $1\frac{1}{10} + \frac{11}{10}$

④ $1\frac{1}{8} + \frac{9}{8}$

⑨ $\frac{4}{5}$

⑤ $1\frac{1}{9} + \frac{10}{9}$

⑩ $1\frac{3}{10} + \frac{13}{10}$

2 ① $1\frac{5}{12} + \frac{17}{12}$

⑥ $\frac{1}{2}$

② $\frac{3}{4}$

⑦ $1\frac{5}{18} + \frac{23}{18}$

③ $\frac{11}{12}$

⑧ $\frac{13}{18}$

④ $1\frac{7}{12} + \frac{19}{12}$

⑨ $1\frac{1}{18} + \frac{19}{18}$

⑤ $\frac{11}{12}$

⑩ $\frac{8}{9}$

アドバイス

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 数に直すと大きさがわかりやすくなります。

15 分数のたし算(4)

P.29・30

1 24, 30, 36, 42, 48, 54

2 24, 32, 40, 48, 56

3 18, 27, 36, 45, 54

4 24, 48, 72, 96

5 18, 36, 54, 72

6 12, 24, 36, 48

7 ① 18

② 12

8 ① 24 ② 36

9 ① 12 ③ 45

② 30 ④ 20

10 ① $\frac{1}{6} = \frac{3}{18}$, $\frac{1}{9} = \frac{2}{18}$
 となるから、
 $\frac{1}{6} + \frac{1}{9} = \frac{3}{18} + \frac{2}{18}$
 $= \frac{5}{18}$

② $\frac{1}{6} + \frac{4}{9} = \frac{3}{18} + \frac{8}{18}$
 $= \frac{11}{18}$

11 ① 24

② $\frac{1}{6} + \frac{1}{8} = \frac{4}{24} + \frac{3}{24}$
 $= \frac{7}{24}$

④ $\frac{5}{6} + \frac{1}{8} = \frac{20}{24} + \frac{3}{24}$
 $= \frac{23}{24}$

③ $\frac{1}{6} + \frac{5}{8} = \frac{4}{24} + \frac{15}{24}$
 $= \frac{19}{24}$

16 分数のたし算(5)

P.31・32

1 ① 12, $\frac{1}{4} + \frac{1}{6} = \frac{3}{12} + \frac{2}{12}$
 $= \frac{5}{12}$

④ 24, $\frac{11}{24}$

② 20, $\frac{11}{20}$

⑤ 36, $\frac{7}{36}$

③ 40, $\frac{17}{40}$

⑥ 30, $\frac{13}{30}$

2 ① 12 ⑦ 56

② 36 ⑧ 40

③ 28 ⑨ 45

④ 44 ⑩ 30

⑤ 60 ⑪ 70

⑥ 60 ⑫ 90

3 ① $\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12}$
 $= \frac{11}{12}$

⑤ $\frac{41}{56}$

② $\frac{25}{36}$

⑥ $\frac{11}{45}$

③ $\frac{9}{28}$

⑦ $\frac{13}{30}$

④ $\frac{43}{60}$

アドバイス 3 7

$$\frac{3}{10} + \frac{2}{15} = \frac{45}{150} + \frac{20}{150}$$

$$= \frac{65}{150} = \frac{13}{30}$$

とすると、計算がたいへんなので、

$$\frac{3}{10} + \frac{2}{15} = \frac{9}{30} + \frac{4}{30}$$

$$= \frac{13}{30}$$

のように、分母を最小公倍数にして計算すると、
 らくにできます。

17 分数のたし算(6)

P.33・34

- 1
- $\frac{5}{12}$
 - $\frac{11}{12}$
 - $\frac{7}{24}$
 - $1\frac{1}{24}\left(\frac{25}{24}\right)$
 - $\frac{5}{18}$
- 2
- $\frac{19}{40}$
 - $1\frac{1}{40}\left(\frac{41}{40}\right)$
 - $\frac{4}{15}$
 - $\frac{7}{15}$
 - $\frac{11}{36}$
- $\frac{17}{18}$
 - $\frac{5}{24}$
 - $\frac{13}{24}$
 - $\frac{8}{45}$
 - $\frac{11}{45}$
 - $\frac{29}{36}$
 - $\frac{1}{6}$
 - $\frac{7}{30}$
 - $\frac{5}{21}$
 - $\frac{19}{21}$

18 分数のたし算(7)

P.35・36

- 1
- $\frac{1}{4} + \frac{5}{6} = \frac{\boxed{3}}{12} + \frac{\boxed{10}}{12} = \frac{\boxed{13}}{12} = 1\frac{\boxed{1}}{12}$
 - $1\frac{1}{20}\left(\frac{21}{20}\right)$
 - $1\frac{5}{24}\left(\frac{29}{24}\right)$
 - $1\frac{5}{24}\left(\frac{29}{24}\right)$
 - $1\frac{7}{20}\left(\frac{27}{20}\right)$
- 2
- $\frac{5}{6} + \frac{1}{10} = \frac{\boxed{25}}{30} + \frac{\boxed{3}}{30} = \frac{\boxed{28}}{30} = \frac{\boxed{14}}{15}$
 - $\frac{3}{10}$
 - $\frac{13}{24}$
 - $\frac{11}{21}$
 - $\frac{5}{6}$
- $1\frac{1}{14}\left(\frac{15}{14}\right)$
 - $1\frac{1}{15}\left(\frac{16}{15}\right)$
 - $1\frac{5}{21}\left(\frac{26}{21}\right)$
 - $1\frac{11}{42}\left(\frac{53}{42}\right)$
 - $1\frac{5}{72}\left(\frac{77}{72}\right)$
 - $\frac{9}{10}$
 - $\frac{11}{12}$
 - $\frac{13}{14}$
 - $\frac{19}{20}$
 - $\frac{25}{42}$

19 分数のたし算(8)

P.37・38

- 1
- $\frac{5}{6} + \frac{4}{15} = \frac{\boxed{25}}{30} + \frac{\boxed{8}}{30} = \frac{\boxed{33}}{30} = 1\frac{\boxed{3}}{30} = 1\frac{\boxed{1}}{10}$
 - $1\frac{1}{6}\left(\frac{7}{6}\right)$
 - $1\frac{1}{3}\left(\frac{4}{3}\right)$
 - $1\frac{1}{6}\left(\frac{7}{6}\right)$
 - $1\frac{1}{3}\left(\frac{4}{3}\right)$
- 2
- $\frac{8}{9}$
 - $\frac{4}{5}$
 - $1\frac{1}{20}\left(\frac{21}{20}\right)$
 - $1\frac{1}{4}\left(\frac{5}{4}\right)$
 - $1\frac{11}{24}\left(\frac{35}{24}\right)$
- $1\frac{1}{5}\left(\frac{6}{5}\right)$
 - $1\frac{1}{2}\left(\frac{3}{2}\right)$
 - $1\frac{1}{4}\left(\frac{5}{4}\right)$
 - $1\frac{8}{15}\left(\frac{23}{15}\right)$
 - $\frac{1}{2}$
 - $\frac{9}{10}$
 - $1\frac{1}{6}\left(\frac{7}{6}\right)$
 - $1\frac{1}{18}\left(\frac{19}{18}\right)$
 - $1\frac{10}{21}\left(\frac{31}{21}\right)$
 - $1\frac{1}{14}\left(\frac{15}{14}\right)$

20 分数のたし算(9)

P.39・40

- 1
- $\frac{1}{2} + 2\frac{1}{3} = 1\frac{\boxed{3}}{6} + 2\frac{\boxed{2}}{6} = 3\frac{\boxed{5}}{6}$
 - $2\frac{1}{2} + 1\frac{1}{4} = 2\frac{2}{4} + 1\frac{1}{4} = 3\frac{3}{4}\left(\frac{15}{4}\right)$
 - $2\frac{8}{15}\left(\frac{38}{15}\right)$
 - $3\frac{7}{12}\left(\frac{43}{12}\right)$
 - $2\frac{1}{6} + 1\frac{1}{8} = 2\frac{4}{24} + 1\frac{3}{24} = 3\frac{7}{24}\left(\frac{79}{24}\right)$
- 2
- $\frac{1}{3} + 2\frac{3}{4} = 1\frac{\boxed{4}}{12} + 2\frac{\boxed{9}}{12} = 3\frac{\boxed{13}}{12} = 4\frac{\boxed{1}}{12}$
 - $2\frac{1}{3} + 1\frac{5}{6} = 2\frac{2}{6} + 1\frac{5}{6} = 3\frac{7}{6} = 4\frac{1}{6}\left(\frac{25}{6}\right)$
 - $2\frac{3}{4} + 2\frac{5}{9} = 2\frac{27}{36} + 2\frac{20}{36} = 4\frac{47}{36} = 5\frac{11}{36}\left(\frac{191}{36}\right)$
 - $5\frac{1}{18}\left(\frac{91}{18}\right)$
 - $3\frac{5}{12}\left(\frac{41}{12}\right)$
- $2\frac{7}{8}\left(\frac{23}{8}\right)$
 - $1\frac{11}{15}\left(\frac{26}{15}\right)$
 - $2\frac{11}{15}\left(\frac{41}{15}\right)$
 - $3\frac{13}{16}\left(\frac{61}{16}\right)$
 - $5\frac{35}{36}\left(\frac{215}{36}\right)$
 - $3\frac{1}{6}\left(\frac{19}{6}\right)$
 - $2\frac{7}{15}\left(\frac{37}{15}\right)$
 - $3\frac{7}{12}\left(\frac{43}{12}\right)$
 - $6\frac{1}{24}\left(\frac{145}{24}\right)$
 - $4\frac{5}{18}\left(\frac{77}{18}\right)$

アドバイス

$$1\frac{1}{2} + 2\frac{1}{3} = \frac{3}{2} + \frac{7}{3} = \frac{9}{6} + \frac{14}{6} = \frac{23}{6}$$

のように考えて、仮分数で答えてもよいです。

21 分数のたし算(10)

P.41・42

- 1 ① $1\frac{1}{6} + 2\frac{1}{3} = 1\frac{1}{6} + 2\frac{2}{6} = 3\frac{3}{6} = 3\frac{1}{2}$
- ② $2\frac{1}{4} + 1\frac{5}{12} = 2\frac{3}{12} + 1\frac{5}{12} = 3\frac{8}{12} = 3\frac{2}{3} = 3\frac{2}{3}(\frac{11}{3})$
- ③ $1\frac{4}{9} + 3\frac{7}{18} = 1\frac{8}{18} + 3\frac{7}{18} = 4\frac{15}{18} = 4\frac{5}{6} = 4\frac{5}{6}(\frac{29}{6})$
- ④ $2\frac{1}{6} + 1\frac{3}{10} = 2\frac{5}{30} + 1\frac{9}{30} = 3\frac{14}{30} = 3\frac{7}{15} = 3\frac{7}{15}(\frac{52}{15})$
- ⑤ $3\frac{3}{4} + 3\frac{1}{20} = \frac{15}{20} + 3\frac{1}{20} = 3\frac{16}{20} = 3\frac{4}{5} = 3\frac{4}{5}(\frac{19}{5})$
- ⑥ $1\frac{7}{15} + \frac{5}{6} = 1\frac{14}{30} + \frac{25}{30} = 1\frac{39}{30} = 2\frac{9}{30} = 2\frac{3}{10} = 2\frac{3}{10}(\frac{23}{10})$
- ⑦ $1\frac{11}{12} = 1\frac{23}{24}$ (または、 $1\frac{39}{30} = 1\frac{13}{10} = 2\frac{3}{10}$)
- ⑧ $4\frac{1}{15} = 4\frac{61}{15}$
- ⑨ $6\frac{1}{4} = 6\frac{25}{4}$
- ⑩ $2\frac{11}{15} + 1\frac{1}{6} = 2\frac{22}{30} + 1\frac{5}{30} = 3\frac{27}{30} = 3\frac{9}{10} = 3\frac{9}{10}(\frac{39}{10})$
- 2 ① $4\frac{2}{3} = 4\frac{14}{3}$
- ② $2\frac{1}{12} = 2\frac{25}{12}$
- ③ $3\frac{1}{10} = 3\frac{31}{10}$
- ④ $3\frac{7}{20} = 3\frac{67}{20}$
- ⑤ $5\frac{7}{12} = 5\frac{67}{12}$
- ⑥ $3\frac{11}{12} = 3\frac{47}{12}$
- ⑦ $3\frac{1}{7} = 3\frac{22}{7}$
- ⑧ $3\frac{1}{10} = 3\frac{31}{10}$
- ⑨ $3\frac{2}{21} = 3\frac{65}{21}$
- ⑩ $3\frac{23}{24} = 3\frac{95}{24}$

アドバイス

答えが約分できるときは、約分して答えましょう。

22 分数のたし算(11)

P.43・44

- 1 ① 48
- ② 40
- ③ 60
- ④ 18
- ⑤ 80
- ⑥ 120
- ⑦ 96
- ⑧ 120
- ⑨ 240
- ⑩ 252

$$2 \text{ ① } \frac{1}{8} + \frac{1}{12} = \frac{3}{24} + \frac{2}{24} = \frac{5}{24}$$

$$6 \text{ ⑥ } \frac{19}{20}$$

$$2 \text{ ② } \frac{19}{40}$$

$$7 \text{ ⑦ } \frac{49}{75}$$

$$3 \text{ ③ } \frac{29}{48}$$

$$8 \text{ ⑧ } \frac{19}{80}$$

$$4 \text{ ④ } \frac{31}{36}$$

$$9 \text{ ⑨ } \frac{31}{96}$$

$$5 \text{ ⑤ } \frac{23}{30}$$

$$10 \text{ ⑩ } \frac{11}{40}$$

アドバイス

最小公倍数は大きいほうの数を2倍、3倍、…しながらさがすと見つかりますが、数が大きくなってむずかしいときは、おぼえておこうのような方法を使うといいですね。

23 分数のひき算(1)

P.45・46

- 1 ① $\frac{3}{4} - \frac{5}{8} = \frac{6}{8} - \frac{5}{8} = \frac{1}{8}$
- ② $\frac{3}{8}$
- ③ $\frac{1}{8}$
- ④ $\frac{2}{9}$
- ⑤ $\frac{4}{9}$
- ⑥ $\frac{1}{2} - \frac{1}{5} = \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$
- ⑦ $\frac{1}{10}$
- ⑧ $\frac{1}{20}$
- ⑨ $\frac{2}{15}$
- ⑩ $\frac{1}{15}$
- 2 ① $\frac{5}{4} - \frac{3}{8} = \frac{10}{8} - \frac{3}{8} = \frac{7}{8}$
- ② $\frac{5}{4} - \frac{5}{8} = \frac{10}{8} - \frac{5}{8} = \frac{5}{8}$
- ③ $\frac{3}{2} - \frac{5}{8} = \frac{12}{8} - \frac{5}{8} = \frac{7}{8}$
- ④ $\frac{9}{8} - \frac{1}{4} = \frac{9}{8} - \frac{2}{8} = \frac{7}{8}$
- ⑤ $\frac{7}{6} - \frac{1}{3} = \frac{7}{6} - \frac{2}{6} = \frac{5}{6}$
- ⑥ $\frac{4}{3} - \frac{2}{5} = \frac{20}{15} - \frac{6}{15} = \frac{14}{15}$
- ⑦ $\frac{7}{5} - \frac{1}{2} = \frac{14}{10} - \frac{5}{10} = \frac{9}{10}$
- ⑧ $\frac{7}{4} - \frac{5}{6} = \frac{21}{12} - \frac{10}{12} = \frac{11}{12}$
- ⑨ $\frac{7}{6} - \frac{5}{8} = \frac{28}{24} - \frac{15}{24} = \frac{13}{24}$
- ⑩ $\frac{10}{9} - \frac{5}{6} = \frac{20}{18} - \frac{15}{18} = \frac{5}{18}$

24 分数のひき算(2)

P.47・48

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

$$2 \quad 2\frac{1}{2} - 1\frac{1}{3} = 2\frac{\boxed{3}}{6} - 1\frac{\boxed{2}}{6} \\ = 1\frac{\boxed{1}}{6}$$

$$3 \quad 2\frac{3}{5} - \frac{3}{10} = 2\frac{6}{10} - \frac{3}{10} \\ = 2\frac{3}{10} \left(\frac{23}{10} \right)$$

$$4 \quad 3\frac{4}{9} \left(\frac{31}{9} \right)$$

$$5 \quad 4\frac{5}{12} - 1\frac{3}{8} = 4\frac{10}{24} - 1\frac{9}{24} \\ = 3\frac{1}{24} \left(\frac{73}{24} \right)$$

$$2 \quad 1 \quad 1 \quad \frac{2}{3} - \frac{1}{6} = \frac{\boxed{4}}{6} - \frac{1}{6} \\ = \frac{\boxed{3}}{6} = \frac{1}{2}$$

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

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

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

$$5 \quad \frac{4}{5} - \frac{3}{10} = \frac{8}{10} - \frac{3}{10} \\ = \frac{5}{10} = \frac{1}{2}$$

$$6 \quad \frac{3}{4} - \frac{1}{6} = \frac{\boxed{9}}{12} - \frac{\boxed{2}}{12} \\ = \frac{7}{12}$$

$$7 \quad \frac{1}{6} - \frac{1}{8} = \frac{4}{24} - \frac{3}{24} \\ = \frac{1}{24}$$

$$8 \quad \frac{5}{6} - \frac{2}{9} = \frac{15}{18} - \frac{4}{18} \\ = \frac{11}{18}$$

$$9 \quad \frac{5}{6} - \frac{1}{10} = \frac{25}{30} - \frac{3}{30} \\ = \frac{22}{30} = \frac{11}{15}$$

$$10 \quad \frac{5}{6} - \frac{3}{10} = \frac{25}{30} - \frac{9}{30} \\ = \frac{16}{30} = \frac{8}{15}$$

$$6 \quad 1\frac{1}{4} \left(\frac{5}{4} \right)$$

$$7 \quad 2\frac{4}{21} \left(\frac{46}{21} \right)$$

$$8 \quad 2\frac{7}{9} - \frac{5}{12} = 2\frac{28}{36} - \frac{15}{36} \\ = 2\frac{13}{36} \left(\frac{85}{36} \right)$$

$$9 \quad 3\frac{5}{6} - 2\frac{3}{4} = 3\frac{10}{12} - 2\frac{9}{12} \\ = 1\frac{1}{12} \left(\frac{13}{12} \right)$$

$$10 \quad 1\frac{5}{24} \left(\frac{29}{24} \right)$$

25 分数のひき算(3)

P.49・50

$$1 \quad 1 \quad \frac{4}{3} - \frac{5}{6} = \frac{\boxed{8}}{6} - \frac{5}{6} \\ = \frac{\boxed{3}}{6} = \frac{1}{2}$$

$$2 \quad \frac{3}{2} - \frac{7}{10} = \frac{15}{10} - \frac{7}{10} \\ = \frac{8}{10} = \frac{4}{5}$$

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

$$4 \quad \frac{3}{4}$$

$$5 \quad \frac{5}{6}$$

$$6 \quad \frac{2}{5}$$

$$7 \quad \frac{13}{15}$$

$$8 \quad \frac{3}{10}$$

$$9 \quad \frac{5}{6}$$

$$10 \quad \frac{5}{6}$$

$$2 \quad 1 \quad \frac{1}{6} \left(\frac{7}{6} \right)$$

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

$$3 \quad 1\frac{1}{4} \left(\frac{5}{4} \right)$$

$$4 \quad \frac{1}{3}$$

$$5 \quad 2\frac{2}{9} \left(\frac{20}{9} \right)$$

$$6 \quad 1\frac{5}{24} \left(\frac{29}{24} \right)$$

$$7 \quad 2\frac{5}{6} \left(\frac{17}{6} \right)$$

$$8 \quad 1\frac{8}{15} \left(\frac{23}{15} \right)$$

$$9 \quad 3\frac{2}{35} \left(\frac{107}{35} \right)$$

$$10 \quad 3\frac{4}{45} \left(\frac{139}{45} \right)$$

26 分数のひき算(4)

P.51・52

$$1 \quad \frac{1}{4}$$

$$2 \quad 2\frac{11}{18} \left(\frac{47}{18} \right)$$

$$3 \quad \frac{7}{12}$$

$$4 \quad \frac{1}{15}$$

$$5 \quad \frac{11}{24}$$

$$6 \quad \frac{5}{8}$$

$$7 \quad \frac{1}{2}$$

$$8 \quad \frac{5}{12}$$

$$9 \quad 3\frac{1}{7} \left(\frac{22}{7} \right)$$

$$10 \quad \frac{1}{6}$$

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

$$2 \quad \frac{11}{12}$$

$$3 \quad 1\frac{1}{28} \left(\frac{29}{28} \right)$$

$$4 \quad \frac{27}{56}$$

$$5 \quad \frac{7}{24}$$

$$6 \quad \frac{7}{9}$$

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

$$8 \quad \frac{9}{20}$$

$$9 \quad 3\frac{2}{3} \left(\frac{11}{3} \right)$$

$$10 \quad \frac{5}{6}$$

27 分数のひき算(5)

P.53・54

$$\begin{aligned} 1 \quad 1 \quad 1 \frac{1}{2} - \frac{7}{8} &= 1 \frac{\boxed{4}}{8} - \frac{7}{8} \\ &= \frac{\boxed{12}}{8} - \frac{7}{8} \\ &= \frac{5}{8} \end{aligned}$$

$$\begin{aligned} 6 \quad 1 \frac{1}{3} - \frac{5}{6} &= 1 \frac{\boxed{2}}{6} - \frac{5}{6} \\ &= \frac{\boxed{8}}{6} - \frac{5}{6} \\ &= \frac{\boxed{3}}{6} = \frac{\boxed{1}}{2} \end{aligned}$$

$$\begin{aligned} 2 \quad 1 \frac{1}{4} - \frac{7}{8} &= 1 \frac{\boxed{2}}{8} - \frac{7}{8} \\ &= \frac{10}{8} - \frac{7}{8} \\ &= \frac{3}{8} \end{aligned}$$

$$7 \quad \frac{1}{2}$$

$$\begin{aligned} 3 \quad 2 \frac{2}{3} - \frac{7}{9} &= 2 \frac{\boxed{6}}{9} - \frac{7}{9} \\ &= 1 \frac{\boxed{15}}{9} - \frac{7}{9} \\ &= 1 \frac{\boxed{8}}{9} \end{aligned}$$

$$8 \quad \frac{5}{6}$$

$$4 \quad 1 \frac{3}{4} \left(\frac{7}{4} \right)$$

$$9 \quad \frac{2}{5}$$

$$5 \quad 2 \frac{17}{21} \left(\frac{59}{21} \right)$$

$$10 \quad 1 \frac{3}{4} \left(\frac{7}{4} \right)$$

$$\begin{aligned} 2 \quad 1 \quad 4 \frac{2}{3} - 2 \frac{5}{6} &= 4 \frac{\boxed{4}}{6} - 2 \frac{5}{6} \\ &= 3 \frac{\boxed{10}}{6} - 2 \frac{5}{6} \\ &= 1 \frac{\boxed{5}}{6} \end{aligned}$$

$$6 \quad 1 \frac{7}{9} \left(\frac{16}{9} \right)$$

$$\begin{aligned} 2 \quad 4 \frac{1}{3} - 1 \frac{2}{5} &= 4 \frac{5}{15} - 1 \frac{6}{15} \\ &= 3 \frac{20}{15} - 1 \frac{6}{15} \\ &= 2 \frac{14}{15} \left(\frac{44}{15} \right) \end{aligned}$$

$$7 \quad 1 \frac{5}{6} \left(\frac{11}{6} \right)$$

$$3 \quad \frac{11}{20}$$

$$8 \quad \frac{2}{3}$$

$$4 \quad \frac{19}{24}$$

$$9 \quad 1 \frac{3}{5} \left(\frac{8}{5} \right)$$

$$5 \quad 2 \frac{13}{14} \left(\frac{41}{14} \right)$$

$$10 \quad 2 \frac{14}{15} \left(\frac{44}{15} \right)$$

28 分数のひき算(6)

P.55・56

$$\begin{aligned} 1 \quad 2 \frac{2}{3} - 1 \frac{1}{6} &= 2 \frac{\boxed{4}}{6} - 1 \frac{1}{6} \\ &= 1 \frac{\boxed{3}}{6} = 1 \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 6 \quad 3 \frac{3}{10} - 1 \frac{4}{5} &= 3 \frac{3}{10} - 1 \frac{\boxed{8}}{10} \\ &= 2 \frac{\boxed{13}}{10} - 1 \frac{\boxed{8}}{10} \\ &= 1 \frac{\boxed{5}}{10} = 1 \frac{1}{2} \end{aligned}$$

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

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

$$\begin{aligned} 3 \quad 1 \frac{1}{6} - \frac{1}{10} &= 1 \frac{5}{30} - \frac{3}{30} \\ &= 1 \frac{2}{30} = 1 \frac{1}{15} \left(\frac{16}{15} \right) \end{aligned}$$

$$\begin{aligned} 8 \quad 3 \frac{1}{10} - 1 \frac{5}{6} &= 3 \frac{3}{30} - 1 \frac{25}{30} \\ &= 2 \frac{33}{30} - 1 \frac{25}{30} \\ &= 1 \frac{8}{30} = 1 \frac{4}{15} \left(\frac{19}{15} \right) \end{aligned}$$

$$\begin{aligned} 4 \quad 2 \frac{2}{3} - \frac{5}{12} &= 2 \frac{8}{12} - \frac{5}{12} \\ &= 2 \frac{3}{12} = 2 \frac{1}{4} \left(\frac{9}{4} \right) \end{aligned}$$

$$\begin{aligned} 9 \quad 2 \frac{1}{4} - \frac{5}{12} &= 2 \frac{3}{12} - \frac{5}{12} \\ &= 1 \frac{15}{12} - \frac{5}{12} \\ &= 1 \frac{10}{12} = 1 \frac{5}{6} \left(\frac{11}{6} \right) \end{aligned}$$

$$\begin{aligned} 5 \quad 3 \frac{5}{7} - 2 \frac{3}{14} &= 3 \frac{10}{14} - 2 \frac{3}{14} \\ &= 1 \frac{7}{14} = 1 \frac{1}{2} \left(\frac{3}{2} \right) \end{aligned}$$

$$\begin{aligned} 10 \quad 1 \frac{11}{15} - \frac{9}{10} &= 1 \frac{22}{30} - \frac{27}{30} \\ &= \frac{52}{30} - \frac{27}{30} \\ &= \frac{25}{30} = \frac{5}{6} \end{aligned}$$

$$2 \quad 1 \quad 1 \frac{1}{4} \left(\frac{5}{4} \right)$$

$$6 \quad 2 \frac{4}{5} \left(\frac{14}{5} \right)$$

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

$$7 \quad 1 \frac{8}{15} \left(\frac{23}{15} \right)$$

$$3 \quad 1 \frac{5}{9} \left(\frac{14}{9} \right)$$

$$8 \quad 2 \frac{13}{24} \left(\frac{61}{24} \right)$$

$$4 \quad 2 \frac{1}{14} \left(\frac{29}{14} \right)$$

$$9 \quad \frac{2}{3}$$

$$5 \quad 1 \frac{1}{6} \left(\frac{7}{6} \right)$$

$$10 \quad \frac{5}{8}$$

アドバイス

分数部分でひけないときは、
ひかれる数の整数部分からくり下げて計算しま
しょう。

29 3つの分数のたし算・ひき算(1) P.57・58

1 ① $\frac{1}{4} + \frac{1}{6} + \frac{1}{8} = \frac{6}{24} + \frac{4}{24} + \frac{3}{24} = \frac{13}{24}$ ⑥ $1 \frac{1}{30} \left(\frac{31}{30} \right)$

② $\frac{19}{24}$ ⑦ $1 \frac{29}{30} \left(\frac{59}{30} \right)$

③ $1 \frac{1}{24} \left(\frac{25}{24} \right)$ ⑧ $\frac{47}{60}$

④ $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = \frac{6}{12} + \frac{4}{12} + \frac{3}{12} = \frac{13}{12} = 1 \frac{1}{12}$ ⑨ $1 \frac{29}{60} \left(\frac{89}{60} \right)$

⑤ $1 \frac{11}{12} \left(\frac{23}{12} \right)$ ⑩ $2 \frac{13}{60} \left(\frac{133}{60} \right)$

2 ① 28 ③ 36
② 30 ④ 40

3 ① (18), [36]
② (36), [36]

4 ① 24 ③ 60
② 18 ④ 24

30 3つの分数のたし算・ひき算(2) P.59・60

1 ① 12 ⑨ 24
② 18 ⑩ 40
③ 12 ⑪ 36
④ 20 ⑫ 28
⑤ 90 ⑬ 90
⑥ 24 ⑭ 120
⑦ 60 ⑮ 24
⑧ 30

2 ① $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = \frac{6}{12} + \frac{4}{12} + \frac{3}{12} = \frac{13}{12} = 1 \frac{1}{12}$ ⑥ $\frac{1}{3} + \frac{1}{5} + \frac{1}{6} = \frac{21}{30} = \frac{7}{10}$

② $\frac{1}{2} + \frac{1}{3} + \frac{1}{8} = \frac{12}{24} + \frac{8}{24} + \frac{3}{24} = \frac{23}{24}$ ⑦ $\frac{1}{3} + \frac{1}{6} + \frac{1}{8} = \frac{15}{24} = \frac{5}{8}$

③ $\frac{17}{20}$ ⑧ $\frac{25}{36}$

④ $\frac{33}{40}$ ⑨ $\frac{23}{40}$

⑤ $\frac{17}{24}$ ⑩ $\frac{13}{24}$

31 3つの分数のたし算・ひき算(3) P.61・62

1 ① $\frac{1}{2} + \frac{1}{3} + \frac{5}{6} = \frac{3}{6} + \frac{2}{6} + \frac{5}{6} = \frac{10}{6} = 1 \frac{4}{6} = 1 \frac{2}{3} \left(\frac{5}{3} \right)$ ⑥ $1 \frac{7}{15} \left(\frac{22}{15} \right)$

② $1 \frac{5}{12} \left(\frac{17}{12} \right)$ ⑦ $1 \frac{19}{36} \left(\frac{55}{36} \right)$

③ $1 \frac{4}{15} \left(\frac{19}{15} \right)$ ⑧ $1 \frac{3}{8} \left(\frac{11}{8} \right)$

④ $1 \frac{5}{12} \left(\frac{17}{12} \right)$ ⑨ $1 \frac{1}{20} \left(\frac{21}{20} \right)$

⑤ $1 \frac{4}{45} \left(\frac{49}{45} \right)$ ⑩ $1 \frac{8}{15} \left(\frac{23}{15} \right)$

2 ① $\frac{1}{2} + 2 \frac{1}{3} + \frac{1}{4} = 1 \frac{6}{12} + 2 \frac{4}{12} + \frac{3}{12} = 3 \frac{13}{12} = 4 \frac{1}{12} \left(\frac{49}{12} \right)$ ⑥ $8 \frac{3}{4} \left(\frac{35}{4} \right)$
② $\frac{1}{8} + \frac{1}{2} + \frac{2}{3} = 1 \frac{3}{24} + \frac{12}{24} + \frac{16}{24} = 1 \frac{31}{24} = 2 \frac{7}{24} \left(\frac{55}{24} \right)$ ⑦ $7 \frac{29}{48} \left(\frac{365}{48} \right)$

③ $4 \frac{11}{40} \left(\frac{171}{40} \right)$ ⑧ $8 \frac{8}{9} \left(\frac{80}{9} \right)$

④ $3 \frac{2}{3} \left(\frac{11}{3} \right)$ ⑨ $8 \frac{11}{30} \left(\frac{251}{30} \right)$

⑤ $7 \frac{13}{20} \left(\frac{153}{20} \right)$ ⑩ $9 \frac{4}{45} \left(\frac{409}{45} \right)$

32 3つの分数のたし算・ひき算(4) P.63・64

1 ① $\frac{1}{2} + \frac{1}{3} - \frac{1}{4} = \frac{6}{12} + \frac{4}{12} - \frac{3}{12} = \frac{7}{12}$ ⑥ $\frac{7}{30}$

② $\frac{1}{3} + \frac{1}{4} - \frac{1}{5} = \frac{20}{60} + \frac{15}{60} - \frac{12}{60} = \frac{23}{60}$ ⑦ $\frac{79}{84}$

③ $\frac{13}{42}$ ⑧ $\frac{1}{24}$

④ $\frac{1}{3} + \frac{3}{4} - \frac{5}{6} = \frac{4}{12} + \frac{9}{12} - \frac{10}{12} = \frac{3}{12} = \frac{1}{4}$ ⑨ $\frac{5}{24}$

⑤ $\frac{17}{30}$ ⑩ $\frac{13}{56}$

$$2 \quad 1 \quad \frac{5}{6} - \frac{1}{2} + \frac{3}{8} = \frac{20}{24} - \frac{12}{24} + \frac{9}{24} = \frac{17}{24}$$

$$2 \quad 2 \quad \frac{7}{8} - \frac{2}{3} + \frac{1}{6} = \frac{21}{24} - \frac{16}{24} + \frac{4}{24} = \frac{9}{24} = \frac{3}{8}$$

$$3 \quad \frac{59}{72}$$

$$4 \quad \frac{17}{36}$$

$$5 \quad 0$$

$$6 \quad \frac{1}{2} + 4\frac{2}{3} - 3\frac{3}{4} = \frac{6}{12} + 4\frac{8}{12} - 3\frac{9}{12} = 1\frac{5}{12}$$

$$7 \quad 1\frac{23}{45} \left(\frac{68}{45} \right)$$

$$8 \quad 5\frac{1}{72} \left(\frac{361}{72} \right)$$

$$9 \quad 2\frac{1}{4} + \frac{1}{6} - \frac{1}{2} = 2\frac{3}{12} + \frac{2}{12} - \frac{6}{12} = 1\frac{15}{12} + \frac{2}{12} - \frac{6}{12} = 1\frac{11}{12} \left(\frac{23}{12} \right)$$

$$10 \quad 4\frac{11}{18} \left(\frac{83}{18} \right)$$

33 3つの分数のたし算・ひき算(5) P.65・66

$$1 \quad 1 \quad 3\frac{2}{3} - \frac{5}{6} - \frac{1}{2} = 3\frac{4}{6} - \frac{5}{6} - \frac{3}{6} = 2\frac{10}{6} - \frac{5}{6} - \frac{3}{6} = 2\frac{2}{6} = 2\frac{1}{3} \left(\frac{7}{3} \right)$$

$$2 \quad 1\frac{11}{18} \left(\frac{29}{18} \right)$$

$$3 \quad 2\frac{2}{3} \left(\frac{5}{3} \right)$$

$$4 \quad 2\frac{13}{30} \left(\frac{73}{30} \right)$$

$$5 \quad 2\frac{31}{36} \left(\frac{103}{36} \right)$$

$$6 \quad \frac{11}{12}$$

$$7 \quad \frac{17}{18}$$

$$8 \quad \frac{44}{45}$$

$$9 \quad 1$$

$$10 \quad 6\frac{1}{3} \left(\frac{19}{3} \right)$$

$$2 \quad 1 \quad 9\frac{3}{7} \left(\frac{66}{7} \right)$$

$$2 \quad 9\frac{3}{7} \left(\frac{66}{7} \right)$$

$$3 \quad 3\frac{3}{7} \left(\frac{24}{7} \right)$$

$$4 \quad 3\frac{1}{8} - 2\frac{1}{4} + 1\frac{1}{2}$$

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

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

$$= 2\frac{3}{8} \left(\frac{19}{8} \right)$$

$$5 \quad 2\frac{7}{12} \left(\frac{31}{12} \right)$$

$$6 \quad 2\frac{1}{12} \left(\frac{25}{12} \right)$$

$$7 \quad 2\frac{1}{8} \left(\frac{17}{8} \right)$$

$$8 \quad 7\frac{1}{12} \left(\frac{85}{12} \right)$$

$$9 \quad 2\frac{17}{28} \left(\frac{73}{28} \right)$$

$$10 \quad 7\frac{1}{21} \left(\frac{148}{21} \right)$$

34 分数のかけ算 P.67・68

$$1 \quad 1 \quad \frac{2}{3} \times \frac{4}{7} = \frac{2 \times 4}{3 \times 7} = \frac{8}{21}$$

$$2 \quad \frac{3}{5} \times \frac{1}{2} = \frac{3 \times 1}{5 \times 2} = \frac{3}{10}$$

$$3 \quad \frac{3}{20}$$

$$4 \quad \frac{5}{24}$$

$$5 \quad \frac{5}{21}$$

$$6 \quad \frac{2}{15}$$

$$7 \quad \frac{3}{20}$$

$$8 \quad \frac{9}{28}$$

$$9 \quad \frac{6}{35}$$

$$10 \quad \frac{9}{40}$$

$$2 \quad 1 \quad \frac{3}{4} \times \frac{5}{6} = \frac{3 \times 5}{4 \times 6} = \frac{5}{8}$$

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

$$2 \quad \frac{2}{3} \times \frac{1}{4} = \frac{2 \times 1}{3 \times 4} = \frac{1}{6}$$

$$7 \quad \frac{4}{7}$$

$$3 \quad \frac{3}{10}$$

$$8 \quad \frac{4}{7}$$

$$4 \quad \frac{1}{10}$$

$$9 \quad \frac{10}{21}$$

$$5 \quad \frac{2}{5}$$

$$10 \quad \frac{3}{14}$$

35 分数と小数(1) P.69・70

$$1 \quad 1 \quad 0.2$$

$$7 \quad 0.125$$

$$2 \quad \frac{3}{5} = \frac{3}{5} \div \frac{5}{5} = 0.6$$

$$8 \quad 0.625$$

$$3 \quad 1.6$$

$$9 \quad 3.375$$

$$4 \quad 0.5$$

$$10 \quad 0.3$$

$$5 \quad 0.25$$

$$11 \quad 0.7$$

$$6 \quad 0.75$$

$$12 \quad 2.3$$

$$2 \quad 1 \quad 0.04$$

$$8 \quad 6.25$$

$$2 \quad 0.12$$

$$9 \quad 16.4$$

$$3 \quad 2.8$$

$$10 \quad 0.02$$

$$4 \quad 0.15$$

$$11 \quad 1.23$$

$$5 \quad 2.5$$

$$12 \quad 3.07$$

$$6 \quad 1.75$$

$$13 \quad 0.007$$

$$7 \quad 1.125$$

36 分数と小数(2) P.71・72

$$1 \quad 1 \quad \frac{7}{10}$$

$$7 \quad 0.14 = \frac{14}{100} = \frac{7}{50}$$

$$2 \quad \frac{33}{100}$$

$$8 \quad \frac{1}{20}$$

$$3 \quad 0.4 = \frac{4}{10} = \frac{2}{5}$$

$$9 \quad \frac{9}{25}$$

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

$$10 \quad 0.004 = \frac{4}{1000} = \frac{1}{250}$$

$$5 \quad 0.06 = \frac{6}{100} = \frac{3}{50}$$

$$11 \quad \frac{3}{250}$$

$$6 \quad \frac{2}{25}$$

$$12 \quad \frac{1}{40}$$

- 2 ① $1.2 = 1\frac{2}{10} = 1\frac{1}{5}$ ⑧ $22\frac{1}{2}$
 ② $1.5 = 1\frac{5}{10} = 1\frac{1}{2}$ ⑨ $2\frac{1}{4}$
 ③ $2.6 = 2\frac{6}{10} = 2\frac{3}{5}$ ⑩ $3\frac{3}{4}$
 ④ $7\frac{1}{2}$ ⑪ $1\frac{6}{25}$
 ⑤ $8\frac{2}{5}$ ⑫ $\frac{3}{125}$
 ⑥ $12.8 = 12\frac{8}{10} = 12\frac{4}{5}$ ⑬ $40\frac{6}{25}$
 ⑦ $32\frac{1}{2}$

37 分数と小数(3)

P.73・74

- 1 ① $0.5 + \frac{1}{6} = \frac{1}{2} + \frac{1}{6} = \frac{3}{6} + \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$
 ② $0.2 + \frac{1}{4} = \frac{1}{5} + \frac{1}{4} = \frac{4}{20} + \frac{5}{20} = \frac{9}{20}$
 ③ $4\frac{3}{10} \left(\frac{43}{10}\right)$
 ④ $\frac{11}{12}$
 ⑤ $1\frac{35}{36} \left(\frac{71}{36}\right)$
 ⑥ $3\frac{1}{2} + 2.4 = 3\frac{1}{2} + 2\frac{2}{5} = 3\frac{5}{10} + 2\frac{4}{10} = 5\frac{9}{10} \left(\frac{59}{10}\right)$
 ⑦ $3\frac{3}{10} \left(\frac{33}{10}\right)$
 ⑧ $1\frac{19}{30} \left(\frac{49}{30}\right)$
 ⑨ $5\frac{69}{70} \left(\frac{419}{70}\right)$
 ⑩ $3\frac{3}{4} \left(\frac{15}{4}\right)$
- 2 ① $\frac{1}{2} - 0.3 = \frac{1}{2} - \frac{3}{10} = \frac{5}{10} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$
 ② $\frac{1}{20}$
 ③ $\frac{1}{20}$
 ④ $\frac{1}{5}$
 ⑤ $1\frac{19}{20} \left(\frac{39}{20}\right)$
 ⑥ $2\frac{4}{15} \left(\frac{34}{15}\right)$
 ⑦ $3\frac{1}{5} \left(\frac{16}{5}\right)$
 ⑧ $3\frac{1}{4} \left(\frac{13}{4}\right)$
 ⑨ $1\frac{5}{12} \left(\frac{17}{12}\right)$
 ⑩ $1\frac{4}{25} \left(\frac{29}{25}\right)$

38 しんだんテスト

P.75・76

- 1 ① $\frac{5}{7}$ ③ $\frac{1}{3}$ ⑤ $\frac{4}{9}$
 ② $\frac{3}{5}$ ④ $\frac{5}{6}$ ⑥ $\frac{1}{3}$
- 2 ① $\frac{11}{15}$ ⑤ $1\frac{1}{20} \left(\frac{21}{20}\right)$
 ② $\frac{19}{24}$ ⑥ $1\frac{1}{2} \left(\frac{3}{2}\right)$
 ③ $\frac{1}{2}$ ⑦ $3\frac{31}{36} \left(\frac{139}{36}\right)$
 ④ $\frac{9}{10}$ ⑧ $2\frac{8}{15} \left(\frac{38}{15}\right)$
- 3 ① $\frac{3}{8}$ ⑤ $1\frac{11}{15} \left(\frac{26}{15}\right)$
 ② $\frac{11}{15}$ ⑥ $1\frac{35}{48} \left(\frac{83}{48}\right)$
 ③ $\frac{1}{2}$ ⑦ $3\frac{1}{24} \left(\frac{73}{24}\right)$
 ④ $\frac{11}{18}$ ⑧ $1\frac{1}{2} \left(\frac{3}{2}\right)$
- 4 ① $2\frac{1}{12} \left(\frac{25}{12}\right)$ ③ $\frac{19}{60}$
 ② $4\frac{3}{20} \left(\frac{83}{20}\right)$ ④ $\frac{2}{9}$
- 5 ① $2\frac{1}{20} \left(\frac{41}{20}\right)$ ③ $\frac{13}{30}$
 ② $1\frac{8}{15} \left(\frac{23}{15}\right)$ ④ $\frac{11}{12}$

アドバイス

1 でまちがえた人は、「約分(1)」から、もう一度ふく習しましょう。

2 でまちがえた人は、「分数のたし算(1)」から、もう一度ふく習しましょう。

3 でまちがえた人は、「分数のひき算(1)」から、もう一度ふく習しましょう。

4 でまちがえた人は、「3つの分数のたし算・ひき算(1)」から、もう一度ふく習しましょう。

5 でまちがえた人は、「分数と小数(1)」から、もう一度ふく習しましょう。