

기탄수학

Gitan's math system

정답 및 풀이

Answers and Solutions

※ 정답 및 풀이는 따로 보관하고
있다가 채점할 때 사용해 주세요.

Keep the answers and solutions
separately and use them
only for the marking.

I-121

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

〈풀이〉 (Solutions)

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

I-122

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

〈풀이〉 (Solutions)

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

I - 123

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|------|------|------|------|------|
| ① 11 | ② 13 | ③ 13 | ④ 9 | ⑤ 11 |
| ⑥ 13 | ⑦ 10 | ⑧ 11 | ⑨ 10 | ⑩ 11 |
| ⑪ 4 | ⑫ 5 | ⑬ 3 | ⑭ 4 | ⑮ 7 |
| ⑯ 9 | ⑰ 10 | ⑱ 5 | ⑲ 9 | ⑳ 7 |
| ㉑ 3 | ㉒ 5 | ㉓ 6 | ㉔ 8 | ㉕ 11 |
| ㉖ 6 | ㉗ 5 | ㉘ 5 | | |

〈풀이〉 (Solutions)

- ① $1\frac{3}{8} = \frac{8+3}{8} = \frac{11}{8}$
- ② $1\frac{5}{8} = \frac{8+5}{8} = \frac{13}{8}$
- ③ $2\frac{6}{7} = 1\frac{7+6}{7} = 1\frac{13}{7}$
- ④ $2\frac{4}{5} = 1\frac{5+4}{5} = 1\frac{9}{5}$
- ⑤ $3\frac{2}{9} = 2\frac{9+2}{9} = 2\frac{11}{9}$
- ⑥ $3\frac{5}{8} = 2\frac{8+5}{8} = 2\frac{13}{8}$
- ⑦ $1\frac{3}{7} = \frac{7+3}{7} = \frac{10}{7}$
- ⑧ $2\frac{4}{7} = 1\frac{7+4}{7} = 1\frac{11}{7}$
- ⑨ $3\frac{3}{7} = 2\frac{7+3}{7} = 2\frac{10}{7}$
- ⑩ $4\frac{4}{7} = 3\frac{7+4}{7} = 3\frac{11}{7}$
- ⑪ $5\frac{1}{3} = 4\frac{3+1}{3} = 4\frac{4}{3}$
- ⑫ $5\frac{2}{3} = 4\frac{3+2}{3} = 4\frac{5}{3}$
- ⑬ $1 = \frac{3}{3}$
- ⑭ $1 = \frac{4}{4}$
- ⑮ $1 = \frac{7}{7}$
- ⑯ $1 = \frac{9}{9}$
- ⑰ $1 = \frac{10}{10}$
- ⑱ $2 = 1\frac{5}{5}$
- ⑲ $3 = 2\frac{9}{9}$
- ㉑ $6 = 5\frac{7}{7}$

- ㉒ $5 = 4\frac{3}{3}$
- ㉓ $4 = 3\frac{5}{5}$
- ㉔ $8 = 7\frac{6}{6}$
- ㉕ $7 = 6\frac{8}{8}$
- ㉖ $6\frac{3}{8} = 5\frac{8+3}{8} = 5\frac{11}{8}$
- ㉗ $5\frac{1}{5} = 4\frac{5+1}{5} = 4\frac{6}{5}$
- ㉘ $3\frac{2}{3} = 2\frac{3+2}{3} = 2\frac{5}{3}$
- ㉙ $4\frac{1}{4} = 3\frac{4+1}{4} = 3\frac{5}{4}$

I - 124

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|------|------|------|------|------|
| ① 11 | ② 3 | ③ 13 | ④ 6 | ⑤ 7 |
| ⑥ 5 | ⑦ 7 | ⑧ 4 | ⑨ 5 | ⑩ 13 |
| ⑪ 13 | ⑫ 8 | ⑬ 19 | ⑭ 13 | ⑮ 7 |
| ⑯ 3 | ⑰ 11 | ⑱ 13 | ⑲ 16 | ⑳ 7 |
| ㉑ 9 | ㉒ 7 | ㉓ 11 | ㉔ 4 | ㉕ 9 |
| ㉖ 19 | ㉗ 4 | ㉘ 7 | | |

〈풀이〉 (Solutions)

- ① $7\frac{2}{9} = 6\frac{9+2}{9} = 6\frac{11}{9}$
- ② $1 = \frac{3}{3}$
- ③ $5\frac{5}{8} = 4\frac{8+5}{8} = 4\frac{13}{8}$
- ④ $4\frac{1}{5} = 3\frac{5+1}{5} = 3\frac{6}{5}$
- ⑤ $5\frac{1}{6} = 4\frac{6+1}{6} = 4\frac{7}{6}$
- ⑥ $5\frac{1}{4} = 4\frac{4+1}{4} = 4\frac{5}{4}$
- ⑦ $7\frac{2}{5} = 6\frac{5+2}{5} = 6\frac{7}{5}$
- ⑧ $3\frac{1}{3} = 2\frac{3+1}{3} = 2\frac{4}{3}$
- ⑨ $1\frac{2}{3} = \frac{3+2}{3} = \frac{5}{3}$
- ⑩ $12\frac{3}{10} = 11\frac{10+3}{10} = 11\frac{13}{10}$

- ⑪ $7\frac{4}{9}=6\frac{9+4}{9}=6\frac{13}{9}$
 ⑫ $3\frac{3}{5}=2\frac{5+3}{5}=2\frac{8}{5}$
 ⑬ $3\frac{4}{15}=2\frac{15+4}{15}=2\frac{19}{15}$
 ⑭ $6\frac{4}{9}=5\frac{9+4}{9}=5\frac{13}{9}$
 ⑮ $1\frac{3}{4}=\frac{4+3}{4}=\frac{7}{4}$
 ⑯ $4\frac{1}{2}=3\frac{2+1}{2}=3\frac{3}{2}$
 ⑰ $2\frac{5}{6}=1\frac{6+5}{6}=1\frac{11}{6}$
 ⑱ $7\frac{3}{10}=6\frac{10+3}{10}=6\frac{13}{10}$
 ⑲ $2\frac{7}{9}=1\frac{9+7}{9}=1\frac{16}{9}$
 ⑳ $3\frac{1}{6}=2\frac{6+1}{6}=2\frac{7}{6}$
 ㉑ $4\frac{1}{8}=3\frac{8+1}{8}=3\frac{9}{8}$
 ㉒ $3\frac{3}{4}=2\frac{4+3}{4}=2\frac{7}{4}$
 ㉓ $3\frac{5}{6}=2\frac{6+5}{6}=2\frac{11}{6}$
 ㉔ $5\frac{1}{3}=4\frac{3+1}{3}=4\frac{4}{3}$
 ㉕ $2\frac{2}{7}=1\frac{7+2}{7}=1\frac{9}{7}$
 ㉖ $3\frac{9}{10}=2\frac{10+9}{10}=2\frac{19}{10}$
 ㉗ $1\frac{1}{3}=\frac{3+1}{3}=\frac{4}{3}$
 ㉘ $2\frac{1}{6}=1\frac{6+1}{6}=1\frac{7}{6}$

I - 125

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|------|------|------|------|------|
| ① 3 | ② 19 | ③ 9 | ④ 5 | ⑤ 11 |
| ⑥ 11 | ⑦ 9 | ⑧ 5 | ⑨ 12 | ⑩ 9 |
| ⑪ 5 | ⑫ 7 | ⑬ 13 | ⑭ 13 | ⑮ 12 |
| ⑯ 21 | ⑰ 17 | ⑱ 26 | ⑲ 28 | ⑳ 19 |
| ㉑ 11 | ㉒ 27 | ㉓ 22 | ㉔ 13 | ㉕ 17 |
| ㉖ 25 | ㉗ 7 | ㉘ 5 | | |

〈풀이〉 (Solutions)

- ① $2\frac{1}{2}=1\frac{2+1}{2}=1\frac{3}{2}$
 ② $4\frac{7}{12}=3\frac{12+7}{12}=3\frac{19}{12}$
 ③ $2\frac{1}{8}=1\frac{8+1}{8}=1\frac{9}{8}$
 ④ $3\frac{2}{3}=2\frac{3+2}{3}=2\frac{5}{3}$
 ⑤ $1\frac{5}{6}=\frac{6+5}{6}=\frac{11}{6}$
 ⑥ $1\frac{1}{10}=\frac{10+1}{10}=\frac{11}{10}$
 ⑦ $4\frac{2}{7}=3\frac{7+2}{7}=3\frac{9}{7}$
 ⑧ $5\frac{1}{4}=4\frac{4+1}{4}=4\frac{5}{4}$
 ⑨ $3\frac{5}{7}=2\frac{7+5}{7}=2\frac{12}{7}$
 ⑩ $4\frac{4}{5}=3\frac{5+4}{5}=3\frac{9}{5}$
 ⑪ $4\frac{2}{3}=3\frac{3+2}{3}=3\frac{5}{3}$
 ⑫ $1\frac{1}{6}=\frac{6+1}{6}=\frac{7}{6}$
 ⑬ $2\frac{5}{8}=1\frac{8+5}{8}=1\frac{13}{8}$
 ⑭ $2\frac{4}{9}=1\frac{9+4}{9}=1\frac{13}{9}$
 ⑮ $1\frac{5}{7}=\frac{7+5}{7}=\frac{12}{7}$
 ⑯ $1\frac{5}{16}=\frac{16+5}{16}=\frac{21}{16}$
 ⑰ $2\frac{7}{10}=1\frac{10+7}{10}=1\frac{17}{10}$
 ⑱ $3\frac{11}{15}=2\frac{15+11}{15}=2\frac{26}{15}$
 ⑲ $5\frac{13}{15}=4\frac{15+13}{15}=4\frac{28}{15}$
 ㉑ $1\frac{9}{10}=\frac{10+9}{10}=\frac{19}{10}$
 ㉒ $8\frac{4}{7}=7\frac{7+4}{7}=7\frac{11}{7}$
 ㉓ $2\frac{11}{16}=1\frac{16+11}{16}=1\frac{27}{16}$
 ㉔ $3\frac{7}{15}=2\frac{15+7}{15}=2\frac{22}{15}$
 ㉕ $3\frac{1}{12}=2\frac{12+1}{12}=2\frac{13}{12}$

$$25) 10\frac{7}{10} = 9\frac{10+7}{10} = 9\frac{17}{10}$$

$$26) 5\frac{11}{14} = 4\frac{14+11}{14} = 4\frac{25}{14}$$

$$27) 7\frac{3}{4} = 6\frac{4+3}{4} = 6\frac{7}{4}$$

$$28) 6\frac{2}{3} = 5\frac{3+2}{3} = 5\frac{5}{3}$$

I - 126

$$① 1\frac{2}{7} \quad ② 2\frac{2}{5} \quad ③ 3\frac{1}{3} \quad ④ 2\frac{1}{2} \quad ⑤ 4\frac{4}{9}$$

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

$$⑪ 11\frac{3}{5} \quad ⑫ 6\frac{5}{9} \quad ⑬ \frac{2}{5} \quad ⑭ \frac{3}{7}$$

〈풀이〉〈Solutions〉

$$① 2\frac{6}{7} - 1\frac{4}{7} = 1\frac{2}{7}$$

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

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

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

$$⑤ 7\frac{2}{9} - 2\frac{7}{9} = 6\frac{11}{9} - 2\frac{7}{9} = 4\frac{4}{9}$$

$$⑥ 5\frac{7}{10} - 2\frac{3}{10} = 3\frac{4}{10} = 3\frac{2}{5}$$

$$⑦ 13\frac{1}{4} - 10 = 3\frac{1}{4}$$

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

$$⑨ 7\frac{5}{6} - 3 = 4\frac{5}{6}$$

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

$$⑪ 12\frac{3}{10} - \frac{7}{10} = 11\frac{13}{10} - \frac{7}{10} = 11\frac{6}{10} = 11\frac{3}{5}$$

$$⑫ 7\frac{4}{9} - \frac{8}{9} = 6\frac{13}{9} - \frac{8}{9} = 6\frac{5}{9}$$

$$⑬ \frac{4}{5} - \frac{2}{5} = \frac{2}{5}$$

$$⑭ \frac{4}{7} - \frac{1}{7} = \frac{3}{7}$$

I - 127

$$① \frac{4}{9} \quad ② \frac{1}{5} \quad ③ 0 \quad ④ 0 \quad ⑤ 1\frac{4}{7}$$

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

$$⑪ 2\frac{3}{5} \quad ⑫ 1\frac{3}{8} \quad ⑬ 3 \quad ⑭ \frac{1}{5}$$

〈풀이〉〈Solutions〉

$$① \frac{8}{9} - \frac{4}{9} = \frac{4}{9}$$

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

$$③ \frac{4}{7} - \frac{4}{7} = 0$$

$$④ \frac{8}{9} - \frac{8}{9} = 0$$

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

$$⑥ 4\frac{6}{7} - 3 = 1\frac{6}{7}$$

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

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

$$⑨ 4\frac{6}{7} - 1 = 3\frac{6}{7}$$

$$⑩ 6\frac{4}{7} - \frac{4}{7} = 6$$

$$⑪ 2\frac{4}{5} - \frac{1}{5} = 2\frac{3}{5}$$

$$⑫ 3\frac{3}{8} - 2 = 1\frac{3}{8}$$

$$⑬ 3\frac{2}{9} - \frac{2}{9} = 3$$

$$⑭ \frac{4}{5} - \frac{3}{5} = \frac{1}{5}$$

I - 128

$$① 2\frac{2}{5} \quad ② 2 \quad ③ 1\frac{5}{9} \quad ④ 0 \quad ⑤ \frac{3}{7}$$

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

$$⑪ 1\frac{1}{2} \quad ⑫ 2\frac{2}{5} \quad ⑬ \frac{1}{2} \quad ⑭ \frac{3}{5}$$

〈풀이〉 (Solutions)

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

② $5\frac{1}{8} - 3\frac{1}{8} = 2$

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

④ $9\frac{3}{4} - 9\frac{3}{4} = 0$

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

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

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

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

⑨ $8\frac{7}{9} - 6\frac{2}{9} = 2\frac{5}{9}$

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

⑪ $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4} = 1\frac{1}{2}$

⑫ $5\frac{7}{10} - 3\frac{3}{10} = 2\frac{4}{10} = 2\frac{2}{5}$

⑬ $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$

⑭ $\frac{9}{10} - \frac{3}{10} = \frac{6}{10} = \frac{3}{5}$

I - 129

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

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

⑪ $1\frac{2}{7}$ ⑫ $1\frac{4}{7}$ ⑬ $\frac{3}{7}$ ⑭ $\frac{6}{7}$

〈풀이〉 (Solutions)

① $4\frac{8}{9} - 2\frac{2}{9} = 2\frac{6}{9} = 2\frac{2}{3}$

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

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

④ $7\frac{8}{15} - 4\frac{2}{15} = 3\frac{6}{15} = 3\frac{2}{5}$

⑤ $5\frac{23}{27} - 2\frac{5}{27} = 3\frac{18}{27} = 3\frac{2}{3}$

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

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

⑧ $4\frac{5}{14} - 1\frac{3}{14} = 3\frac{2}{14} = 3\frac{1}{7}$

⑨ $3\frac{19}{24} - 1\frac{7}{24} = 2\frac{12}{24} = 2\frac{1}{2}$

⑩ $1\frac{2}{7} - \frac{5}{7} = \frac{9}{7} - \frac{5}{7} = \frac{4}{7}$

⑪ $2\frac{1}{7} - \frac{6}{7} = 1\frac{8}{7} - \frac{6}{7} = 1\frac{2}{7}$

⑫ $3\frac{3}{7} - 1\frac{6}{7} = 2\frac{10}{7} - 1\frac{6}{7} = 1\frac{4}{7}$

⑬ $1\frac{1}{7} - \frac{5}{7} = \frac{8}{7} - \frac{5}{7} = \frac{3}{7}$

⑭ $1\frac{4}{7} - \frac{5}{7} = \frac{11}{7} - \frac{5}{7} = \frac{6}{7}$

I - 130

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

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

⑪ $2\frac{4}{5}$ ⑫ $2\frac{4}{7}$ ⑬ $2\frac{5}{7}$ ⑭ $1\frac{5}{7}$

〈풀이〉 (Solutions)

① $2\frac{3}{7} - 1\frac{6}{7} = 1\frac{10}{7} - 1\frac{6}{7} = \frac{4}{7}$

② $5\frac{4}{7} - \frac{5}{7} = 4\frac{11}{7} - \frac{5}{7} = 4\frac{6}{7}$

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

④ $6\frac{3}{5} - \frac{3}{5} = 6$

⑤ $5\frac{1}{7} - \frac{4}{7} = 4\frac{8}{7} - \frac{4}{7} = 4\frac{4}{7}$

⑥ $5\frac{3}{7} - \frac{4}{7} = 4\frac{10}{7} - \frac{4}{7} = 4\frac{6}{7}$

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

$$\textcircled{8} 3\frac{3}{7} - \frac{5}{7} = 2\frac{10}{7} - \frac{5}{7} = 2\frac{5}{7}$$

$$\textcircled{9} 3\frac{1}{5} - \frac{4}{5} = 2\frac{6}{5} - \frac{4}{5} = 2\frac{2}{5}$$

$$\textcircled{10} 2\frac{2}{7} - \frac{5}{7} = 1\frac{9}{7} - \frac{5}{7} = 1\frac{4}{7}$$

$$\textcircled{11} 3\frac{3}{5} - \frac{4}{5} = 2\frac{8}{5} - \frac{4}{5} = 2\frac{4}{5}$$

$$\textcircled{12} 5\frac{3}{7} - 2\frac{6}{7} = 4\frac{10}{7} - 2\frac{6}{7} = 2\frac{4}{7}$$

$$\textcircled{13} 4\frac{1}{7} - 1\frac{3}{7} = 3\frac{8}{7} - 1\frac{3}{7} = 2\frac{5}{7}$$

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

I - 131

$$\textcircled{1} 1\frac{4}{7} \quad \textcircled{2} 1\frac{4}{5} \quad \textcircled{3} 2\frac{6}{7} \quad \textcircled{4} 2\frac{3}{5} \quad \textcircled{5} 2\frac{3}{7}$$

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

$$\textcircled{11} 2\frac{4}{7} \quad \textcircled{12} 4\frac{3}{5} \quad \textcircled{13} 2\frac{4}{5} \quad \textcircled{14} 3\frac{1}{2}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 4\frac{2}{7} - 2\frac{5}{7} = 3\frac{9}{7} - 2\frac{5}{7} = 1\frac{4}{7}$$

$$\textcircled{2} 3\frac{2}{5} - 1\frac{3}{5} = 2\frac{7}{5} - 1\frac{3}{5} = 1\frac{4}{5}$$

$$\textcircled{3} 4\frac{3}{7} - 1\frac{4}{7} = 3\frac{10}{7} - 1\frac{4}{7} = 2\frac{6}{7}$$

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

$$\textcircled{5} 8\frac{1}{7} - 5\frac{5}{7} = 7\frac{8}{7} - 5\frac{5}{7} = 2\frac{3}{7}$$

$$\textcircled{6} 8\frac{1}{5} - 1\frac{3}{5} = 7\frac{6}{5} - 1\frac{3}{5} = 6\frac{3}{5}$$

$$\textcircled{7} 3\frac{2}{7} - 1\frac{3}{7} = 2\frac{9}{7} - 1\frac{3}{7} = 1\frac{6}{7}$$

$$\textcircled{8} 6\frac{3}{7} - 2\frac{6}{7} = 5\frac{10}{7} - 2\frac{6}{7} = 3\frac{4}{7}$$

$$\textcircled{9} 7\frac{8}{9} - 3\frac{8}{9} = 4$$

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

$$\textcircled{11} 5\frac{2}{7} - 2\frac{5}{7} = 4\frac{9}{7} - 2\frac{5}{7} = 2\frac{4}{7}$$

$$\textcircled{12} 7\frac{2}{5} - 2\frac{4}{5} = 6\frac{7}{5} - 2\frac{4}{5} = 4\frac{3}{5}$$

$$\textcircled{13} 5\frac{3}{5} - 2\frac{4}{5} = 4\frac{8}{5} - 2\frac{4}{5} = 2\frac{4}{5}$$

$$\textcircled{14} 6\frac{3}{4} - 3\frac{1}{4} = 3\frac{2}{4} = 3\frac{1}{2}$$

I - 132

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

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

$$\textcircled{11} \frac{3}{4} \quad \textcircled{12} 1\frac{1}{4} \quad \textcircled{13} 4\frac{1}{2} \quad \textcircled{14} 0$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 8\frac{2}{9} - 2\frac{5}{9} = 7\frac{11}{9} - 2\frac{5}{9} = 5\frac{6}{9} = 5\frac{2}{3}$$

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

$$\textcircled{3} 3\frac{1}{8} - \frac{7}{8} = 2\frac{9}{8} - \frac{7}{8} = 2\frac{2}{8} = 2\frac{1}{4}$$

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

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

$$\textcircled{6} 8\frac{2}{9} - \frac{7}{9} = 7\frac{11}{9} - \frac{7}{9} = 7\frac{4}{9}$$

$$\textcircled{7} 4\frac{3}{4} - 1\frac{1}{4} = 3\frac{2}{4} = 3\frac{1}{2}$$

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

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

$$\textcircled{10} 6\frac{8}{9} - \frac{5}{9} = 6\frac{3}{9} = 6\frac{1}{3}$$

$$\textcircled{11} 7\frac{3}{8} - 6\frac{5}{8} = 6\frac{11}{8} - 6\frac{5}{8} = \frac{6}{8} = \frac{3}{4}$$

$$\textcircled{12} 4\frac{5}{8} - 3\frac{3}{8} = 1\frac{2}{8} = 1\frac{1}{4}$$

$$\textcircled{13} 6\frac{1}{8} - 1\frac{5}{8} = 5\frac{9}{8} - 1\frac{5}{8} = 4\frac{4}{8} = 4\frac{1}{2}$$

$$\textcircled{14} \frac{4}{7} - \frac{4}{7} = 0$$

I-133

- ① $1\frac{3}{7}$ ② $1\frac{5}{7}$ ③ $3\frac{2}{3}$ ④ $\frac{1}{7}$ ⑤ $4\frac{3}{7}$
 ⑥ $\frac{3}{5}$ ⑦ 3 ⑧ 0 ⑨ $3\frac{5}{7}$ ⑩ $4\frac{7}{8}$
 ⑪ 5 ⑫ 6 ⑬ $\frac{1}{3}$ ⑭ $2\frac{1}{2}$

〈풀이〉〈Solutions〉

- ① $2\frac{4}{7}-1\frac{1}{7}=1\frac{3}{7}$
 ② $4\frac{6}{7}-3\frac{1}{7}=1\frac{5}{7}$
 ③ $5\frac{1}{3}-1\frac{2}{3}=4\frac{1}{3}-1\frac{2}{3}=3\frac{2}{3}$
 ④ $4-3\frac{6}{7}=3\frac{7}{7}-3\frac{6}{7}=\frac{1}{7}$
 ⑤ $8\frac{5}{7}-4\frac{2}{7}=4\frac{3}{7}$
 ⑥ $3\frac{4}{5}-3\frac{1}{5}=\frac{3}{5}$
 ⑦ $4\frac{5}{8}-1\frac{5}{8}=3$
 ⑧ $4\frac{7}{10}-4\frac{7}{10}=0$
 ⑨ $5\frac{6}{7}-2\frac{1}{7}=3\frac{5}{7}$
 ⑩ $6\frac{7}{8}-2=4\frac{7}{8}$
 ⑪ $5\frac{7}{9}-\frac{7}{9}=5$
 ⑫ $8\frac{6}{11}-2\frac{6}{11}=6$
 ⑬ $\frac{7}{9}-\frac{4}{9}=\frac{3}{9}=\frac{1}{3}$
 ⑭ $3\frac{7}{8}-1\frac{3}{8}=2\frac{4}{8}=2\frac{1}{2}$

I-134

- ① $2\frac{1}{2}$ ② $2\frac{3}{7}$ ③ $2\frac{1}{2}$ ④ $3\frac{1}{3}$ ⑤ $4\frac{4}{9}$
 ⑥ $3\frac{2}{3}$ ⑦ $4\frac{5}{7}$ ⑧ $5\frac{3}{5}$ ⑨ $3\frac{3}{7}$ ⑩ $\frac{6}{7}$
 ⑪ $3\frac{4}{5}$ ⑫ $3\frac{1}{5}$ ⑬ $3\frac{4}{5}$ ⑭ $2\frac{5}{7}$

〈풀이〉〈Solutions〉

- ① $4\frac{11}{12}-2\frac{5}{12}=2\frac{6}{12}=2\frac{1}{2}$
 ② $3\frac{11}{14}-1\frac{5}{14}=2\frac{6}{14}=2\frac{3}{7}$
 ③ $5\frac{7}{8}-3\frac{3}{8}=2\frac{4}{8}=2\frac{1}{2}$
 ④ $6\frac{11}{12}-3\frac{7}{12}=3\frac{4}{12}=3\frac{1}{3}$
 ⑤ $6\frac{13}{18}-2\frac{5}{18}=4\frac{8}{18}=4\frac{4}{9}$
 ⑥ $4\frac{19}{21}-1\frac{5}{21}=3\frac{14}{21}=3\frac{2}{3}$
 ⑦ $5\frac{2}{7}-\frac{4}{7}=4\frac{9}{7}-\frac{4}{7}=4\frac{5}{7}$
 ⑧ $6\frac{2}{5}-\frac{4}{5}=5\frac{7}{5}-\frac{4}{5}=5\frac{3}{5}$
 ⑨ $4\frac{2}{7}-\frac{6}{7}=3\frac{9}{7}-\frac{6}{7}=3\frac{3}{7}$
 ⑩ $1\frac{2}{7}-\frac{3}{7}=\frac{9}{7}-\frac{3}{7}=\frac{6}{7}$
 ⑪ $4\frac{2}{5}-\frac{3}{5}=3\frac{7}{5}-\frac{3}{5}=3\frac{4}{5}$
 ⑫ $3\frac{2}{5}-\frac{1}{5}=3\frac{1}{5}$
 ⑬ $5\frac{1}{5}-1\frac{2}{5}=4\frac{6}{5}-1\frac{2}{5}=3\frac{4}{5}$
 ⑭ $4\frac{3}{7}-1\frac{5}{7}=3\frac{10}{7}-1\frac{5}{7}=2\frac{5}{7}$

I-135

- ① $2\frac{3}{7}$ ② $3\frac{4}{7}$ ③ 4 ④ $3\frac{1}{7}$ ⑤ $6\frac{3}{5}$
 ⑥ $\frac{1}{5}$ ⑦ $5\frac{1}{3}$ ⑧ $4\frac{1}{2}$ ⑨ $1\frac{1}{2}$ ⑩ $6\frac{1}{3}$
 ⑪ $4\frac{1}{7}$ ⑫ $2\frac{3}{4}$ ⑬ $2\frac{5}{6}$ ⑭ $\frac{1}{5}$

〈풀이〉〈Solutions〉

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

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

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

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

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

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

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

$$⑩ 7\frac{1}{6} - \frac{5}{6} = 6\frac{7}{6} - \frac{5}{6} = 6\frac{2}{6} = 6\frac{1}{3}$$

$$⑪ 5 - \frac{6}{7} = 4\frac{7}{7} - \frac{6}{7} = 4\frac{1}{7}$$

$$⑫ 5\frac{3}{8} - 2\frac{5}{8} = 4\frac{11}{8} - 2\frac{5}{8} = 2\frac{6}{8} = 2\frac{3}{4}$$

$$⑬ 5\frac{5}{6} - 3 = 2\frac{5}{6}$$

$$⑭ 8\frac{1}{10} - 7\frac{9}{10} = 7\frac{11}{10} - 7\frac{9}{10} = \frac{2}{10} = \frac{1}{5}$$

I - 136

$$① \frac{1}{6} \quad ② \frac{4}{15} \quad ③ \frac{1}{12} \quad ④ \frac{5}{36} \quad ⑤ \frac{1}{6}$$

$$⑥ \frac{1}{24} \quad ⑦ \frac{1}{12} \quad ⑧ \frac{1}{6} \quad ⑨ \frac{1}{18} \quad ⑩ \frac{7}{24}$$

〈풀이〉〈Solutions〉

※ 분모가 다른 두 분수의 뺄셈에서는 두 분모의 최소공배수로 통분하여 계산하는 것이 중요합니다. 아래의 풀이와 같이 최소공배수로 통분하여 계산하는지 점검하여 주십시오.

For subtraction of fractions with unlike denominators, it is important to reduce to common denominator by using the least common multiple. Please check whether students solve problems by reducing to common denominator by using the least common multiple as shown below.

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

$$② \frac{3}{5} - \frac{1}{3} = \frac{9}{15} - \frac{5}{15} = \frac{4}{15}$$

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

$$④ \frac{8}{9} - \frac{3}{4} = \frac{32}{36} - \frac{27}{36} = \frac{5}{36}$$

$$⑤ \frac{9}{10} - \frac{11}{15} = \frac{27}{30} - \frac{22}{30} = \frac{5}{30} = \frac{1}{6}$$

$$⑥ \frac{5}{12} - \frac{3}{8} = \frac{10}{24} - \frac{9}{24} = \frac{1}{24}$$

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

$$⑧ \frac{3}{8} - \frac{5}{24} = \frac{9}{24} - \frac{5}{24} = \frac{4}{24} = \frac{1}{6}$$

$$⑨ \frac{8}{9} - \frac{5}{6} = \frac{16}{18} - \frac{15}{18} = \frac{1}{18}$$

$$⑩ \frac{2}{3} - \frac{3}{8} = \frac{16}{24} - \frac{9}{24} = \frac{7}{24}$$

I - 137

$$① \frac{1}{20} \quad ② \frac{3}{40} \quad ③ \frac{4}{21} \quad ④ \frac{1}{4} \quad ⑤ \frac{1}{2}$$

$$⑥ \frac{4}{45} \quad ⑦ \frac{11}{15} \quad ⑧ \frac{11}{60} \quad ⑨ \frac{5}{12} \quad ⑩ \frac{1}{6}$$

〈풀이〉〈Solutions〉

$$① \frac{1}{4} - \frac{1}{5} = \frac{5}{20} - \frac{4}{20} = \frac{1}{20}$$

$$② \frac{1}{5} - \frac{1}{8} = \frac{8}{40} - \frac{5}{40} = \frac{3}{40}$$

$$③ \frac{1}{3} - \frac{1}{7} = \frac{7}{21} - \frac{3}{21} = \frac{4}{21}$$

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

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

$$⑥ \frac{7}{18} - \frac{3}{10} = \frac{35}{90} - \frac{27}{90} = \frac{8}{90} = \frac{4}{45}$$

$$⑦ \frac{5}{6} - \frac{1}{10} = \frac{25}{30} - \frac{3}{30} = \frac{22}{30} = \frac{11}{15}$$

$$⑧ \frac{7}{12} - \frac{2}{5} = \frac{35}{60} - \frac{24}{60} = \frac{11}{60}$$

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

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

I - 138

$$① \frac{8}{35} \quad ② \frac{13}{30} \quad ③ \frac{3}{8} \quad ④ \frac{1}{6} \quad ⑤ \frac{5}{8}$$

$$⑥ \frac{1}{8} \quad ⑦ \frac{1}{10} \quad ⑧ \frac{3}{8} \quad ⑨ \frac{3}{10} \quad ⑩ \frac{3}{10}$$

〈풀이〉 (Solutions)

① $\frac{4}{5} - \frac{4}{7} = \frac{28}{35} - \frac{20}{35} = \frac{8}{35}$

② $\frac{5}{6} - \frac{2}{5} = \frac{25}{30} - \frac{12}{30} = \frac{13}{30}$

③ $\frac{3}{4} - \frac{3}{8} = \frac{6}{8} - \frac{3}{8} = \frac{3}{8}$

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

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

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

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

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

⑨ $\frac{2}{5} - \frac{1}{10} = \frac{4}{10} - \frac{1}{10} = \frac{3}{10}$

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

I - 139

① $1\frac{27}{40}$ ② $3\frac{7}{12}$ ③ $\frac{7}{10}$ ④ $\frac{15}{16}$ ⑤ $6\frac{5}{36}$

⑥ $1\frac{37}{60}$ ⑦ $1\frac{21}{40}$ ⑧ $1\frac{1}{6}$ ⑨ $2\frac{1}{4}$ ⑩ $3\frac{1}{9}$

〈풀이〉 (Solutions)

① $12\frac{3}{8} - 10\frac{7}{10} = 12\frac{15}{40} - 10\frac{28}{40} = 11\frac{55}{40} - 10\frac{28}{40} = 1\frac{27}{40}$

② $5\frac{1}{3} - 1\frac{3}{4} = 5\frac{4}{12} - 1\frac{9}{12} = 4\frac{16}{12} - 1\frac{9}{12} = 3\frac{7}{12}$

③ $4\frac{1}{6} - 3\frac{7}{15} = 4\frac{5}{30} - 3\frac{14}{30} = 3\frac{35}{30} - 3\frac{14}{30} = \frac{21}{30} = \frac{7}{10}$

④ $3\frac{3}{8} - 2\frac{7}{16} = 3\frac{6}{16} - 2\frac{7}{16} = 2\frac{22}{16} - 2\frac{7}{16} = \frac{15}{16}$

⑤ $9\frac{5}{9} - 3\frac{5}{12} = 9\frac{20}{36} - 3\frac{15}{36} = 6\frac{5}{36}$

⑥ $5\frac{7}{20} - 3\frac{11}{15} = 5\frac{21}{60} - 3\frac{44}{60} = 4\frac{81}{60} - 3\frac{44}{60} = 1\frac{37}{60}$

⑦ $4\frac{3}{10} - 2\frac{31}{40} = 4\frac{12}{40} - 2\frac{31}{40} = 3\frac{52}{40} - 2\frac{31}{40} = 1\frac{21}{40}$

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

⑨ $3\frac{1}{12} - \frac{5}{6} = 3\frac{1}{12} - \frac{10}{12} = 2\frac{13}{12} - \frac{10}{12} = 2\frac{3}{12} = 2\frac{1}{4}$

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

I - 140

① $2\frac{1}{14}$ ② $3\frac{11}{12}$ ③ $1\frac{7}{9}$ ④ $3\frac{19}{24}$ ⑤ $\frac{1}{4}$

⑥ $2\frac{47}{48}$ ⑦ $4\frac{19}{20}$ ⑧ $2\frac{31}{72}$ ⑨ $5\frac{47}{60}$ ⑩ $\frac{3}{28}$

〈풀이〉 (Solutions)

① $3\frac{4}{7} - 1\frac{1}{2} = 3\frac{8}{14} - 1\frac{7}{14} = 2\frac{1}{14}$

② $4\frac{2}{3} - \frac{3}{4} = 4\frac{8}{12} - \frac{9}{12} = 3\frac{20}{12} - \frac{9}{12} = 3\frac{11}{12}$

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

④ $5\frac{1}{6} - 1\frac{3}{8} = 5\frac{4}{24} - 1\frac{9}{24} = 4\frac{28}{24} - 1\frac{9}{24} = 3\frac{19}{24}$

⑤ $4\frac{3}{5} - 4\frac{7}{20} = 4\frac{12}{20} - 4\frac{7}{20} = \frac{5}{20} = \frac{1}{4}$

⑥ $3\frac{9}{16} - \frac{7}{12} = 3\frac{27}{48} - \frac{28}{48} = 2\frac{75}{48} - \frac{28}{48} = 2\frac{47}{48}$

$$\begin{aligned} \textcircled{7} 10\frac{3}{20} - 5\frac{1}{5} &= 10\frac{3}{20} - 5\frac{4}{20} = 9\frac{23}{20} - 5\frac{4}{20} \\ &= 4\frac{19}{20} \end{aligned}$$

$$\begin{aligned} \textcircled{8} 4\frac{7}{18} - 1\frac{23}{24} &= 4\frac{28}{72} - 1\frac{69}{72} = 3\frac{100}{72} - 1\frac{69}{72} \\ &= 2\frac{31}{72} \end{aligned}$$

$$\begin{aligned} \textcircled{9} 8\frac{3}{20} - 2\frac{11}{30} &= 8\frac{9}{60} - 2\frac{22}{60} = 7\frac{69}{60} - 2\frac{22}{60} \\ &= 5\frac{47}{60} \end{aligned}$$

$$\textcircled{10} \frac{1}{4} - \frac{1}{7} = \frac{7}{28} - \frac{4}{28} = \frac{3}{28}$$

I - 141

$$\begin{aligned} \textcircled{1} 1\frac{2}{3} \quad \textcircled{2} 2\frac{7}{20} \quad \textcircled{3} 3\frac{1}{12} \quad \textcircled{4} 4\frac{3}{28} \quad \textcircled{5} 1\frac{23}{24} \\ \textcircled{6} 2\frac{8}{9} \quad \textcircled{7} 2\frac{7}{10} \quad \textcircled{8} \frac{1}{56} \quad \textcircled{9} 1\frac{7}{24} \quad \textcircled{10} 2\frac{11}{24} \end{aligned}$$

〈풀이〉〈Solutions〉

$$\begin{aligned} \textcircled{1} 1\frac{3}{4} - \frac{1}{12} &= 1\frac{9}{12} - \frac{1}{12} \\ &= 1\frac{8}{12} = 1\frac{2}{3} \end{aligned}$$

$$\textcircled{2} 2\frac{3}{4} - \frac{2}{5} = 2\frac{15}{20} - \frac{8}{20} = 2\frac{7}{20}$$

$$\textcircled{3} 3\frac{1}{4} - \frac{1}{6} = 3\frac{3}{12} - \frac{2}{12} = 3\frac{1}{12}$$

$$\textcircled{4} 4\frac{3}{4} - \frac{9}{14} = 4\frac{21}{28} - \frac{18}{28} = 4\frac{3}{28}$$

$$\begin{aligned} \textcircled{5} 5\frac{3}{4} - 3\frac{19}{24} &= 5\frac{18}{24} - 3\frac{19}{24} = 4\frac{42}{24} - 3\frac{19}{24} \\ &= 1\frac{23}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{6} 3\frac{1}{3} - \frac{4}{9} &= 3\frac{3}{9} - \frac{4}{9} = 2\frac{12}{9} - \frac{4}{9} \\ &= 2\frac{8}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{7} 3\frac{3}{10} - \frac{3}{5} &= 3\frac{3}{10} - \frac{6}{10} = 2\frac{13}{10} - \frac{6}{10} \\ &= 2\frac{7}{10} \end{aligned}$$

$$\textcircled{8} \frac{1}{7} - \frac{1}{8} = \frac{8}{56} - \frac{7}{56} = \frac{1}{56}$$

$$\begin{aligned} \textcircled{9} 2\frac{1}{6} - \frac{7}{8} &= 2\frac{4}{24} - \frac{21}{24} = 1\frac{28}{24} - \frac{21}{24} \\ &= 1\frac{7}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{10} 3\frac{1}{8} - \frac{2}{3} &= 3\frac{3}{24} - \frac{16}{24} = 2\frac{27}{24} - \frac{16}{24} \\ &= 2\frac{11}{24} \end{aligned}$$

I - 142

$$\begin{aligned} \textcircled{1} 3\frac{1}{2} \quad \textcircled{2} \frac{31}{40} \quad \textcircled{3} 3\frac{27}{40} \quad \textcircled{4} 3\frac{13}{15} \quad \textcircled{5} 1\frac{9}{10} \\ \textcircled{6} \frac{3}{70} \quad \textcircled{7} \frac{19}{24} \quad \textcircled{8} 1\frac{5}{14} \quad \textcircled{9} 1\frac{19}{30} \quad \textcircled{10} 2\frac{4}{21} \end{aligned}$$

〈풀이〉〈Solutions〉

$$\begin{aligned} \textcircled{1} 4\frac{2}{5} - \frac{9}{10} &= 4\frac{4}{10} - \frac{9}{10} = 3\frac{14}{10} - \frac{9}{10} \\ &= 3\frac{5}{10} = 3\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} 1\frac{2}{5} - \frac{5}{8} &= 1\frac{16}{40} - \frac{25}{40} = \frac{56}{40} - \frac{25}{40} \\ &= \frac{31}{40} \end{aligned}$$

$$\begin{aligned} \textcircled{3} 4\frac{3}{8} - \frac{7}{10} &= 4\frac{15}{40} - \frac{28}{40} = 3\frac{55}{40} - \frac{28}{40} \\ &= 3\frac{27}{40} \end{aligned}$$

$$\begin{aligned} \textcircled{4} 5\frac{2}{5} - 1\frac{8}{15} &= 5\frac{6}{15} - 1\frac{8}{15} = 4\frac{21}{15} - 1\frac{8}{15} \\ &= 3\frac{13}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{5} 3\frac{1}{6} - 1\frac{4}{15} &= 3\frac{5}{30} - 1\frac{8}{30} = 2\frac{35}{30} - 1\frac{8}{30} \\ &= 1\frac{27}{30} = 1\frac{9}{10} \end{aligned}$$

$$\textcircled{6} \frac{1}{7} - \frac{1}{10} = \frac{10}{70} - \frac{7}{70} = \frac{3}{70}$$

$$\begin{aligned} \textcircled{7} 2\frac{1}{6} - 1\frac{3}{8} &= 2\frac{4}{24} - 1\frac{9}{24} = 1\frac{28}{24} - 1\frac{9}{24} \\ &= \frac{19}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{8} 3\frac{2}{7} - 1\frac{13}{14} &= 3\frac{4}{14} - 1\frac{13}{14} = 2\frac{18}{14} - 1\frac{13}{14} \\ &= 1\frac{5}{14} \end{aligned}$$

$$\textcircled{9} 2\frac{1}{10} - \frac{7}{15} = 2\frac{\frac{3}{30} - \frac{14}{30}}{1} = 1\frac{\frac{33}{30} - \frac{14}{30}}{1} = 1\frac{19}{30}$$

$$\textcircled{10} 4\frac{5}{6} - 2\frac{9}{14} = 4\frac{\frac{35}{42} - \frac{27}{42}}{1} = 2\frac{\frac{8}{42}}{1} = 2\frac{4}{21}$$

I-143

$$\textcircled{1} 2\frac{3}{16} \quad \textcircled{2} 2\frac{33}{40} \quad \textcircled{3} 3\frac{7}{40} \quad \textcircled{4} \frac{1}{90} \quad \textcircled{5} 3\frac{23}{40}$$

$$\textcircled{6} 3\frac{2}{9} \quad \textcircled{7} \frac{101}{120} \quad \textcircled{8} \frac{19}{24} \quad \textcircled{9} 2\frac{1}{18} \quad \textcircled{10} \frac{7}{10}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 3\frac{5}{8} - 1\frac{7}{16} = 3\frac{\frac{10}{16} - \frac{7}{16}}{1} = 2\frac{3}{16}$$

$$\textcircled{2} 4\frac{3}{8} - 1\frac{11}{20} = 4\frac{\frac{15}{40} - \frac{22}{40}}{1} = 3\frac{\frac{55}{40} - \frac{22}{40}}{1} = 2\frac{33}{40}$$

$$\textcircled{3} 4\frac{5}{8} - 1\frac{9}{20} = 4\frac{\frac{25}{40} - \frac{18}{40}}{1} = 3\frac{7}{40}$$

$$\textcircled{4} \frac{1}{9} - \frac{1}{10} = \frac{10}{90} - \frac{9}{90} = \frac{1}{90}$$

$$\textcircled{5} 3\frac{7}{8} - \frac{3}{10} = 3\frac{\frac{35}{40} - \frac{12}{40}}{1} = 3\frac{23}{40}$$

$$\textcircled{6} 3\frac{5}{6} - \frac{11}{18} = 3\frac{\frac{15}{18} - \frac{11}{18}}{1} = 3\frac{\frac{4}{18}}{1} = 3\frac{2}{9}$$

$$\textcircled{7} 2\frac{7}{15} - 1\frac{5}{8} = 2\frac{\frac{56}{120} - \frac{75}{120}}{1} = 1\frac{\frac{176}{120} - \frac{75}{120}}{1} = \frac{101}{120}$$

$$\textcircled{8} 2\frac{5}{12} - 1\frac{5}{8} = 2\frac{\frac{10}{24} - \frac{15}{24}}{1} = 1\frac{\frac{34}{24} - \frac{15}{24}}{1} = \frac{19}{24}$$

$$\textcircled{9} 2\frac{4}{9} - \frac{7}{18} = 2\frac{\frac{8}{18} - \frac{7}{18}}{1} = 2\frac{1}{18}$$

$$\textcircled{10} 3\frac{1}{6} - 2\frac{7}{15} = 3\frac{\frac{5}{30} - \frac{14}{30}}{1} = 2\frac{\frac{35}{30} - \frac{14}{30}}{1} = \frac{21}{30} = \frac{7}{10}$$

I-144

$$\textcircled{1} 1\frac{47}{48} \quad \textcircled{2} \frac{1}{60} \quad \textcircled{3} 1\frac{1}{36} \quad \textcircled{4} \frac{1}{3} \quad \textcircled{5} 2\frac{11}{48}$$

$$\textcircled{6} 1\frac{19}{50} \quad \textcircled{7} \frac{1}{48} \quad \textcircled{8} 1\frac{13}{15} \quad \textcircled{9} 2\frac{1}{30} \quad \textcircled{10} 1\frac{25}{36}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 5\frac{11}{16} - 3\frac{17}{24} = 5\frac{\frac{33}{48} - \frac{34}{48}}{1} = 4\frac{\frac{81}{48} - \frac{34}{48}}{1} = 1\frac{47}{48}$$

$$\textcircled{2} \frac{1}{10} - \frac{1}{12} = \frac{6}{60} - \frac{5}{60} = \frac{1}{60}$$

$$\textcircled{3} 1\frac{11}{12} - \frac{8}{9} = 1\frac{\frac{33}{36} - \frac{32}{36}}{1} = 1\frac{1}{36}$$

$$\textcircled{4} 2\frac{1}{12} - 1\frac{3}{4} = 2\frac{\frac{1}{12} - \frac{9}{12}}{1} = 1\frac{\frac{13}{12} - \frac{9}{12}}{1} = \frac{4}{12} = \frac{1}{3}$$

$$\textcircled{5} 4\frac{7}{16} - 2\frac{5}{24} = 4\frac{\frac{21}{48} - \frac{10}{48}}{1} = 2\frac{\frac{11}{48}}{1} = \frac{11}{48}$$

$$\textcircled{6} 3\frac{3}{10} - 1\frac{23}{25} = 3\frac{\frac{15}{50} - \frac{46}{50}}{1} = 2\frac{\frac{65}{50} - \frac{46}{50}}{1} = 1\frac{19}{50}$$

$$\textcircled{7} \frac{1}{12} - \frac{1}{16} = \frac{4}{48} - \frac{3}{48} = \frac{1}{48}$$

$$\textcircled{8} 3\frac{3}{5} - 1\frac{11}{15} = 3\frac{\frac{9}{15} - \frac{11}{15}}{1} = 2\frac{\frac{24}{15} - \frac{11}{15}}{1} = 1\frac{13}{15}$$

$$\textcircled{9} 2\frac{3}{10} - \frac{4}{15} = 2\frac{\frac{9}{30} - \frac{8}{30}}{1} = 2\frac{1}{30}$$

$$\textcircled{10} 3\frac{5}{12} - 1\frac{13}{18} = 3\frac{\frac{15}{36} - \frac{26}{36}}{1} = 2\frac{\frac{51}{36} - \frac{26}{36}}{1} = 1\frac{25}{36}$$

I-145

$$\textcircled{1} 2\frac{61}{70} \quad \textcircled{2} 2\frac{8}{9} \quad \textcircled{3} 3\frac{95}{98} \quad \textcircled{4} 4\frac{21}{40} \quad \textcircled{5} 2\frac{1}{6}$$

$$\textcircled{6} 3\frac{1}{10} \quad \textcircled{7} 2\frac{7}{15} \quad \textcircled{8} 3\frac{23}{24} \quad \textcircled{9} 1\frac{2}{3} \quad \textcircled{10} 4\frac{1}{80}$$

〈풀이〉 〈Solutions〉

- ① $3\frac{5}{14} - \frac{17}{35} = 3\frac{25}{70} - \frac{34}{70} = 2\frac{95}{70} - \frac{34}{70} = 2\frac{61}{70}$
- ② $4\frac{2}{15} - 1\frac{11}{45} = 4\frac{6}{45} - 1\frac{11}{45} = 3\frac{51}{45} - 1\frac{11}{45} = 2\frac{40}{45} = 2\frac{8}{9}$
- ③ $4\frac{11}{14} - \frac{40}{49} = 4\frac{77}{98} - \frac{80}{98} = 3\frac{175}{98} - \frac{80}{98} = 3\frac{95}{98}$
- ④ $10\frac{3}{10} - 5\frac{31}{40} = 10\frac{12}{40} - 5\frac{31}{40} = 9\frac{52}{40} - 5\frac{31}{40} = 4\frac{21}{40}$
- ⑤ $3\frac{3}{14} - 1\frac{1}{21} = 3\frac{9}{42} - 1\frac{2}{42} = 2\frac{7}{42} = 2\frac{1}{6}$
- ⑥ $3\frac{7}{15} - \frac{11}{30} = 3\frac{14}{30} - \frac{11}{30} = 3\frac{3}{30} = 3\frac{1}{10}$
- ⑦ $4\frac{5}{12} - 1\frac{19}{20} = 4\frac{25}{60} - 1\frac{57}{60} = 3\frac{85}{60} - 1\frac{57}{60} = 2\frac{28}{60} = 2\frac{7}{15}$
- ⑧ $6\frac{8}{15} - 2\frac{23}{40} = 6\frac{64}{120} - 2\frac{69}{120} = 5\frac{184}{120} - 2\frac{69}{120} = 3\frac{115}{120} = 3\frac{23}{24}$
- ⑨ $2\frac{9}{14} - \frac{41}{42} = 2\frac{27}{42} - \frac{41}{42} = 1\frac{69}{42} - \frac{41}{42} = 1\frac{28}{42} = 1\frac{2}{3}$
- ⑩ $14\frac{3}{16} - 10\frac{7}{40} = 14\frac{15}{80} - 10\frac{14}{80} = 4\frac{1}{80}$

I - 146

- ① $1\frac{5}{6}$ ② $4\frac{1}{2}$ ③ $1\frac{23}{24}$ ④ $3\frac{1}{2}$ ⑤ $1\frac{43}{48}$
- ⑥ $\frac{1}{12}$ ⑦ $3\frac{5}{7}$ ⑧ $2\frac{3}{4}$ ⑨ $1\frac{1}{3}$ ⑩ $1\frac{19}{30}$

〈풀이〉 〈Solutions〉

- ① $2\frac{7}{12} - \frac{3}{4} = 2\frac{7}{12} - \frac{9}{12} = 1\frac{19}{12} - \frac{9}{12} = 1\frac{10}{12} = 1\frac{5}{6}$

- ② $5\frac{3}{10} - \frac{4}{5} = 5\frac{3}{10} - \frac{8}{10} = 4\frac{13}{10} - \frac{8}{10} = 4\frac{5}{10} = 4\frac{1}{2}$
- ③ $4\frac{1}{8} - 2\frac{1}{6} = 4\frac{3}{24} - 2\frac{4}{24} = 3\frac{27}{24} - 2\frac{4}{24} = 1\frac{23}{24}$
- ④ $4\frac{2}{3} - 1\frac{1}{6} = 4\frac{4}{6} - 1\frac{1}{6} = 3\frac{3}{6} = 3\frac{1}{2}$
- ⑤ $2\frac{11}{16} - \frac{19}{24} = 2\frac{33}{48} - \frac{38}{48} = 1\frac{81}{48} - \frac{38}{48} = 1\frac{43}{48}$
- ⑥ $\frac{11}{12} - \frac{5}{6} = \frac{11}{12} - \frac{10}{12} = \frac{1}{12}$
- ⑦ $4 - \frac{2}{7} = 3\frac{7}{7} - \frac{2}{7} = 3\frac{5}{7}$
- ⑧ $7\frac{3}{4} - 5 = 2\frac{3}{4}$
- ⑨ $3\frac{1}{12} - 1\frac{3}{4} = 3\frac{1}{12} - 1\frac{9}{12} = 2\frac{13}{12} - 1\frac{9}{12} = 1\frac{4}{12} = 1\frac{1}{3}$
- ⑩ $3\frac{7}{15} - 1\frac{5}{6} = 3\frac{14}{30} - 1\frac{25}{30} = 2\frac{44}{30} - 1\frac{25}{30} = 1\frac{19}{30}$

I - 147

- ① $1\frac{3}{8}$ ② $1\frac{8}{9}$ ③ $1\frac{5}{18}$ ④ $1\frac{23}{24}$ ⑤ $1\frac{23}{42}$
- ⑥ $1\frac{13}{30}$ ⑦ $\frac{7}{15}$ ⑧ $1\frac{3}{20}$ ⑨ $1\frac{3}{8}$ ⑩ $2\frac{11}{14}$

〈풀이〉 〈Solutions〉

- ① $4\frac{3}{4} - 3\frac{3}{8} = 4\frac{6}{8} - 3\frac{3}{8} = 1\frac{3}{8}$
- ② $4\frac{1}{3} - 2\frac{4}{9} = 4\frac{3}{9} - 2\frac{4}{9} = 3\frac{12}{9} - 2\frac{4}{9} = 1\frac{8}{9}$
- ③ $3\frac{1}{6} - 1\frac{8}{9} = 3\frac{3}{18} - 1\frac{16}{18} = 2\frac{21}{18} - 1\frac{16}{18} = 1\frac{5}{18}$
- ④ $3\frac{1}{3} - 1\frac{3}{8} = 3\frac{8}{24} - 1\frac{9}{24} = 2\frac{32}{24} - 1\frac{9}{24} = 1\frac{23}{24}$

$$\textcircled{5} 3\frac{4}{21} - 1\frac{9}{14} = 3\frac{8}{42} - 1\frac{27}{42} = 2\frac{50}{42} - 1\frac{27}{42} \\ = 1\frac{23}{42}$$

$$\textcircled{6} 1\frac{9}{10} - \frac{7}{15} = 1\frac{27}{30} - \frac{14}{30} = 1\frac{13}{30}$$

$$\textcircled{7} 1\frac{1}{6} - \frac{7}{10} = 1\frac{5}{30} - \frac{21}{30} = \frac{35}{30} - \frac{21}{30} \\ = \frac{14}{30} = \frac{7}{15}$$

$$\textcircled{8} 2\frac{3}{4} - 1\frac{3}{5} = 2\frac{15}{20} - 1\frac{12}{20} = 1\frac{3}{20}$$

$$\textcircled{9} 3\frac{5}{8} - 2\frac{1}{4} = 3\frac{5}{8} - 2\frac{2}{8} = 1\frac{3}{8}$$

$$\textcircled{10} 8\frac{4}{7} - 5\frac{11}{14} = 8\frac{8}{14} - 5\frac{11}{14} = 7\frac{22}{14} - 5\frac{11}{14} \\ = 2\frac{11}{14}$$

I - 148

$$\textcircled{1} 1\frac{2}{15} \quad \textcircled{2} \frac{5}{18} \quad \textcircled{3} 4\frac{9}{20} \quad \textcircled{4} 3\frac{23}{45} \quad \textcircled{5} 2\frac{3}{10} \\ \textcircled{6} 4\frac{13}{24} \quad \textcircled{7} 2\frac{5}{12} \quad \textcircled{8} \frac{11}{60} \quad \textcircled{9} \frac{3}{20} \quad \textcircled{10} 3\frac{13}{40}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 3\frac{4}{5} - 2\frac{2}{3} = 3\frac{12}{15} - 2\frac{10}{15} = 1\frac{2}{15}$$

$$\textcircled{2} 5\frac{4}{9} - 5\frac{1}{6} = 5\frac{8}{18} - 5\frac{3}{18} = \frac{5}{18}$$

$$\textcircled{3} 6\frac{7}{10} - 2\frac{1}{4} = 6\frac{14}{20} - 2\frac{5}{20} = 4\frac{9}{20}$$

$$\textcircled{4} 4\frac{7}{9} - 1\frac{4}{15} = 4\frac{35}{45} - 1\frac{12}{45} = 3\frac{23}{45}$$

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

$$\textcircled{6} 7\frac{2}{3} - 3\frac{1}{8} = 7\frac{16}{24} - 3\frac{3}{24} = 4\frac{13}{24}$$

$$\textcircled{7} 3\frac{3}{4} - 1\frac{1}{3} = 3\frac{9}{12} - 1\frac{4}{12} = 2\frac{5}{12}$$

$$\textcircled{8} 5\frac{4}{15} - 5\frac{1}{12} = 5\frac{16}{60} - 5\frac{5}{60} = \frac{11}{60}$$

$$\textcircled{9} 4\frac{1}{4} - 4\frac{1}{10} = 4\frac{5}{20} - 4\frac{2}{20} = \frac{3}{20}$$

$$\textcircled{10} 6\frac{7}{10} - 3\frac{3}{8} = 6\frac{28}{40} - 3\frac{15}{40} = 3\frac{13}{40}$$

I - 149

$$\textcircled{1} 2\frac{1}{2} \quad \textcircled{2} 6\frac{1}{6} \quad \textcircled{3} 2\frac{1}{24} \quad \textcircled{4} \frac{11}{15} \quad \textcircled{5} 1\frac{1}{24}$$

$$\textcircled{6} 4\frac{13}{21} \quad \textcircled{7} 2\frac{2}{15} \quad \textcircled{8} 3\frac{17}{56} \quad \textcircled{9} 2\frac{5}{6} \quad \textcircled{10} 2\frac{2}{45}$$

〈풀이〉〈Solutions〉

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

$$\textcircled{2} 6\frac{7}{10} - \frac{8}{15} = 6\frac{21}{30} - \frac{16}{30} = 6\frac{5}{30} = 6\frac{1}{6}$$

$$\textcircled{3} 4\frac{7}{8} - 2\frac{5}{6} = 4\frac{21}{24} - 2\frac{20}{24} = 2\frac{1}{24}$$

$$\textcircled{4} 4\frac{5}{6} - 4\frac{1}{10} = 4\frac{25}{30} - 4\frac{3}{30} = \frac{22}{30} = \frac{11}{15}$$

$$\textcircled{5} 3\frac{7}{8} - 2\frac{5}{6} = 3\frac{21}{24} - 2\frac{20}{24} = 1\frac{1}{24}$$

$$\textcircled{6} 7\frac{5}{6} - 3\frac{3}{14} = 7\frac{35}{42} - 3\frac{9}{42} = 4\frac{26}{42} = 4\frac{13}{21}$$

$$\textcircled{7} 4\frac{5}{6} - 2\frac{7}{10} = 4\frac{25}{30} - 2\frac{21}{30} = 2\frac{4}{30} = 2\frac{2}{15}$$

$$\textcircled{8} 8\frac{3}{8} - 5\frac{1}{14} = 8\frac{21}{56} - 5\frac{4}{56} = 3\frac{17}{56}$$

$$\textcircled{9} 3\frac{14}{15} - 1\frac{1}{10} = 3\frac{28}{30} - 1\frac{3}{30} = 2\frac{25}{30} = 2\frac{5}{6}$$

$$\textcircled{10} 8\frac{7}{9} - 6\frac{11}{15} = 8\frac{35}{45} - 6\frac{33}{45} = 2\frac{2}{45}$$

I - 150

$$\textcircled{1} 2\frac{19}{35} \quad \textcircled{2} 4\frac{3}{28} \quad \textcircled{3} \frac{7}{8} \quad \textcircled{4} \frac{14}{15} \quad \textcircled{5} \frac{7}{8}$$

$$\textcircled{6} \frac{1}{2} \quad \textcircled{7} \frac{5}{6} \quad \textcircled{8} \frac{2}{5} \quad \textcircled{9} \frac{9}{10} \quad \textcircled{10} \frac{23}{24}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 4\frac{9}{10} - 2\frac{5}{14} = 4\frac{63}{70} - 2\frac{25}{70} \\ = 2\frac{38}{70} = 2\frac{19}{35}$$

$$\textcircled{2} 5\frac{3}{4} - 1\frac{9}{14} = 5\frac{21}{28} - 1\frac{18}{28} = 4\frac{3}{28}$$

$$\textcircled{3} 1\frac{1}{2} - \frac{5}{8} = 1\frac{4}{8} - \frac{5}{8} = \frac{12}{8} - \frac{5}{8} = \frac{7}{8}$$

$$\textcircled{4} 1\frac{1}{3} - \frac{2}{5} = 1\frac{5}{15} - \frac{6}{15} = \frac{20}{15} - \frac{6}{15} = \frac{14}{15}$$

$$\textcircled{5} 1\frac{1}{8} - \frac{1}{4} = 1\frac{1}{8} - \frac{2}{8} = \frac{9}{8} - \frac{2}{8} = \frac{7}{8}$$

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

$$\textcircled{7} 1\frac{1}{4} - \frac{5}{12} = 1\frac{3}{12} - \frac{5}{12} = \frac{15}{12} - \frac{5}{12} = \frac{10}{12} = \frac{5}{6}$$

$$\textcircled{8} 1\frac{1}{15} - \frac{2}{3} = 1\frac{1}{15} - \frac{10}{15} = \frac{16}{15} - \frac{10}{15} = \frac{6}{15} = \frac{2}{5}$$

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

$$\textcircled{10} 1\frac{1}{8} - \frac{1}{6} = 1\frac{3}{24} - \frac{4}{24} = \frac{27}{24} - \frac{4}{24} = \frac{23}{24}$$

I - 151

$$\textcircled{1} \frac{13}{15} \quad \textcircled{2} 1\frac{9}{10} \quad \textcircled{3} 2\frac{11}{14} \quad \textcircled{4} 2\frac{17}{21} \quad \textcircled{5} 2\frac{5}{8}$$

$$\textcircled{6} 1\frac{5}{18} \quad \textcircled{7} 1\frac{13}{24} \quad \textcircled{8} 2\frac{7}{8} \quad \textcircled{9} 1\frac{1}{2} \quad \textcircled{10} 2\frac{3}{4}$$

〈풀이〉〈Solutions〉

※ 분모가 다른 두 분수의 뺄셈에서는 두 분모의 최소공배수로 통분하여 계산하는 것이 중요합니다. 아래의 풀이와 같이 최소공배수로 통분하여 계산하는지 점검하여 주십시오.

For subtraction of fractions with unlike denominators, it is important to reduce to common denominator by using the least common multiple. Please check whether students solve problems by reducing to common denominator by using the least common multiple as shown below.

$$\textcircled{1} 1\frac{1}{6} - \frac{3}{10} = 1\frac{5}{30} - \frac{9}{30} = \frac{35}{30} - \frac{9}{30} = \frac{26}{30} = \frac{13}{15}$$

$$\textcircled{2} 2\frac{3}{5} - \frac{7}{10} = 2\frac{6}{10} - \frac{7}{10} = 1\frac{16}{10} - \frac{7}{10} = 1\frac{9}{10}$$

$$\textcircled{3} 3\frac{1}{7} - \frac{5}{14} = 3\frac{2}{14} - \frac{5}{14} = 2\frac{16}{14} - \frac{5}{14} = 2\frac{11}{14}$$

$$\textcircled{4} 3\frac{1}{7} - \frac{1}{3} = 3\frac{3}{21} - \frac{7}{21} = 2\frac{24}{21} - \frac{7}{21} = 2\frac{17}{21}$$

$$\textcircled{5} 6\frac{1}{8} - 3\frac{1}{2} = 6\frac{1}{8} - 3\frac{4}{8} = 5\frac{9}{8} - 3\frac{4}{8} = 2\frac{5}{8}$$

$$\textcircled{6} 5\frac{1}{6} - 3\frac{8}{9} = 5\frac{3}{18} - 3\frac{16}{18} = 4\frac{21}{18} - 3\frac{16}{18} = 1\frac{5}{18}$$

$$\textcircled{7} 3\frac{3}{8} - 1\frac{5}{6} = 3\frac{9}{24} - 1\frac{20}{24} = 2\frac{33}{24} - 1\frac{20}{24} = 1\frac{13}{24}$$

$$\textcircled{8} 3\frac{1}{4} - \frac{3}{8} = 3\frac{2}{8} - \frac{3}{8} = 2\frac{10}{8} - \frac{3}{8} = 2\frac{7}{8}$$

$$\textcircled{9} 4\frac{1}{6} - 2\frac{2}{3} = 4\frac{1}{6} - 2\frac{4}{6} = 3\frac{7}{6} - 2\frac{4}{6} = 1\frac{3}{6} = 1\frac{1}{2}$$

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

I - 152

$$\textcircled{1} 1\frac{4}{15} \quad \textcircled{2} 1\frac{2}{3} \quad \textcircled{3} 1\frac{1}{2} \quad \textcircled{4} 1\frac{11}{12} \quad \textcircled{5} 2\frac{7}{10}$$

$$\textcircled{6} 1\frac{7}{9} \quad \textcircled{7} \frac{5}{6} \quad \textcircled{8} 4\frac{1}{2} \quad \textcircled{9} 2\frac{13}{20} \quad \textcircled{10} 4\frac{7}{15}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 3\frac{1}{10} - 1\frac{5}{6} = 3\frac{3}{30} - 1\frac{25}{30} = 2\frac{33}{30} - 1\frac{25}{30} = 1\frac{8}{30} = 1\frac{4}{15}$$

$$\textcircled{2} 2\frac{1}{4} - \frac{7}{12} = 2\frac{3}{12} - \frac{7}{12} = 1\frac{15}{12} - \frac{7}{12} = 1\frac{8}{12} = 1\frac{2}{3}$$

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

$$\textcircled{4} 5\frac{7}{12} - 3\frac{2}{3} = 5\frac{7}{12} - 3\frac{8}{12} = 4\frac{19}{12} - 3\frac{8}{12} \\ = 1\frac{11}{12}$$

$$\textcircled{5} 3\frac{1}{10} - \frac{2}{5} = 3\frac{1}{10} - \frac{4}{10} = 2\frac{11}{10} - \frac{4}{10} \\ = 2\frac{7}{10}$$

$$\textcircled{6} 4\frac{5}{18} - 2\frac{1}{2} = 4\frac{5}{18} - 2\frac{9}{18} = 3\frac{23}{18} - 2\frac{9}{18} \\ = 1\frac{14}{18} = 1\frac{7}{9}$$

$$\textcircled{7} 5\frac{3}{4} - 4\frac{11}{12} = 5\frac{9}{12} - 4\frac{11}{12} = 4\frac{21}{12} - 4\frac{11}{12} \\ = \frac{10}{12} = \frac{5}{6}$$

$$\textcircled{8} 4\frac{5}{7} - \frac{3}{14} = 4\frac{10}{14} - \frac{3}{14} = 4\frac{7}{14} = 4\frac{1}{2}$$

$$\textcircled{9} 3\frac{2}{5} - \frac{3}{4} = 3\frac{8}{20} - \frac{15}{20} = 2\frac{28}{20} - \frac{15}{20} \\ = 2\frac{13}{20}$$

$$\textcircled{10} 5\frac{3}{10} - \frac{5}{6} = 5\frac{9}{30} - \frac{25}{30} = 4\frac{39}{30} - \frac{25}{30} \\ = 4\frac{14}{30} = 4\frac{7}{15}$$

I - 153

$$\textcircled{1} 3\frac{5}{12} \quad \textcircled{2} 1\frac{1}{2} \quad \textcircled{3} \frac{2}{5} \quad \textcircled{4} 2\frac{11}{24} \quad \textcircled{5} \frac{7}{8}$$

$$\textcircled{6} 1\frac{19}{24} \quad \textcircled{7} 2\frac{1}{2} \quad \textcircled{8} 2\frac{1}{20} \quad \textcircled{9} \frac{1}{15} \quad \textcircled{10} 4\frac{2}{3}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 5\frac{1}{4} - 1\frac{5}{6} = 5\frac{3}{12} - 1\frac{10}{12} = 4\frac{15}{12} - 1\frac{10}{12} \\ = 3\frac{5}{12}$$

$$\textcircled{2} 5\frac{3}{10} - 3\frac{4}{5} = 5\frac{3}{10} - 3\frac{8}{10} = 4\frac{13}{10} - 3\frac{8}{10} \\ = 1\frac{5}{10} = \frac{1}{2}$$

$$\textcircled{3} 4\frac{1}{15} - 3\frac{2}{3} = 4\frac{1}{15} - 3\frac{10}{15} = 3\frac{16}{15} - 3\frac{10}{15} \\ = \frac{6}{15} = \frac{2}{5}$$

$$\textcircled{4} 3\frac{1}{8} - \frac{2}{3} = 3\frac{3}{24} - \frac{16}{24} = 2\frac{27}{24} - \frac{16}{24} = 2\frac{11}{24}$$

$$\textcircled{5} 1\frac{1}{2} - \frac{5}{8} = 1\frac{4}{8} - \frac{5}{8} = \frac{12}{8} - \frac{5}{8} = \frac{7}{8}$$

$$\textcircled{6} 5\frac{11}{12} - 4\frac{1}{8} = 5\frac{22}{24} - 4\frac{3}{24} = 1\frac{19}{24}$$

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

$$\textcircled{8} 2\frac{3}{4} - \frac{7}{10} = 2\frac{15}{20} - \frac{14}{20} = 2\frac{1}{20}$$

$$\textcircled{9} \frac{2}{5} - \frac{1}{3} = \frac{6}{15} - \frac{5}{15} = \frac{1}{15}$$

$$\textcircled{10} 8\frac{5}{12} - 3\frac{3}{8} = 8\frac{5}{12} - 3\frac{9}{12} = 7\frac{17}{12} - 3\frac{9}{12} \\ = 4\frac{8}{12} = 4\frac{2}{3}$$

I - 154

$$\textcircled{1} 1\frac{23}{36} \quad \textcircled{2} 4\frac{1}{6} \quad \textcircled{3} 1\frac{19}{20} \quad \textcircled{4} \frac{7}{12} \quad \textcircled{5} 2\frac{2}{15}$$

$$\textcircled{6} \frac{5}{8} \quad \textcircled{7} \frac{2}{3} \quad \textcircled{8} \frac{61}{66} \quad \textcircled{9} 2\frac{20}{21} \quad \textcircled{10} \frac{5}{9}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 7\frac{5}{12} - 5\frac{7}{9} = 7\frac{15}{36} - 5\frac{28}{36} = 6\frac{51}{36} - 5\frac{28}{36} \\ = 1\frac{23}{36}$$

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

$$\textcircled{3} 7\frac{8}{15} - 5\frac{7}{12} = 7\frac{32}{60} - 5\frac{35}{60} = 6\frac{92}{60} - 5\frac{35}{60} \\ = 1\frac{57}{60} = 1\frac{19}{20}$$

$$\textcircled{4} 2\frac{1}{4} - 1\frac{2}{3} = 2\frac{3}{12} - 1\frac{8}{12} = 1\frac{15}{12} - 1\frac{8}{12} \\ = \frac{7}{12}$$

$$\textcircled{5} 5\frac{1}{3} - 3\frac{1}{5} = 5\frac{5}{15} - 3\frac{3}{15} = 2\frac{2}{15}$$

$$\textcircled{6} 4 - 3\frac{3}{8} = 3\frac{8}{8} - 3\frac{3}{8} = \frac{5}{8}$$

$$\textcircled{7} 5\frac{1}{2} - 4\frac{5}{6} = 5\frac{3}{6} - 4\frac{5}{6} = 4\frac{9}{6} - 4\frac{5}{6} \\ = \frac{4}{6} = \frac{2}{3}$$

$$\textcircled{8} 4\frac{1}{11} - 3\frac{1}{6} = 4\frac{6}{66} - 3\frac{11}{66} = 3\frac{72}{66} - 3\frac{11}{66} = \frac{61}{66}$$

$$\textcircled{9} 5\frac{1}{6} - 2\frac{3}{14} = 5\frac{7}{42} - 2\frac{9}{42} = 4\frac{49}{42} - 2\frac{9}{42} = 2\frac{40}{42} = 2\frac{20}{21}$$

$$\textcircled{10} 2\frac{1}{3} - 1\frac{7}{9} = 2\frac{3}{9} - 1\frac{7}{9} = 1\frac{12}{9} - 1\frac{7}{9} = \frac{5}{9}$$

I - 155

$$\textcircled{1} 2\frac{49}{60} \quad \textcircled{2} \frac{11}{12} \quad \textcircled{3} 1\frac{2}{3} \quad \textcircled{4} 2\frac{47}{50} \quad \textcircled{5} 5\frac{1}{4}$$

$$\textcircled{6} 6\frac{19}{24} \quad \textcircled{7} 1\frac{1}{3} \quad \textcircled{8} \frac{5}{9} \quad \textcircled{9} \frac{17}{20} \quad \textcircled{10} 2\frac{17}{35}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 4\frac{1}{12} - 1\frac{4}{15} = 4\frac{5}{60} - 1\frac{16}{60} = 3\frac{65}{60} - 1\frac{16}{60} = 2\frac{49}{60}$$

$$\textcircled{2} 3\frac{1}{3} - 2\frac{5}{12} = 3\frac{4}{12} - 2\frac{5}{12} = 2\frac{16}{12} - 2\frac{5}{12} = \frac{11}{12}$$

$$\textcircled{3} 3\frac{7}{24} - 1\frac{5}{8} = 3\frac{7}{24} - 1\frac{15}{24} = 2\frac{31}{24} - 1\frac{15}{24} = 1\frac{16}{24} = 1\frac{2}{3}$$

$$\textcircled{4} 4\frac{1}{10} - 1\frac{4}{25} = 4\frac{5}{50} - 1\frac{8}{50} = 3\frac{55}{50} - 1\frac{8}{50} = 2\frac{47}{50}$$

$$\textcircled{5} 7\frac{1}{12} - 1\frac{5}{6} = 7\frac{1}{12} - 1\frac{10}{12} = 6\frac{13}{12} - 1\frac{10}{12} = 5\frac{3}{12} = 5\frac{1}{4}$$

$$\textcircled{6} 7\frac{1}{6} - \frac{3}{8} = 7\frac{4}{24} - \frac{9}{24} = 6\frac{28}{24} - \frac{9}{24} = 6\frac{19}{24}$$

$$\textcircled{7} 3\frac{2}{15} - 1\frac{4}{5} = 3\frac{2}{15} - 1\frac{12}{15} = 2\frac{17}{15} - 1\frac{12}{15} = 1\frac{5}{15} = 1\frac{1}{3}$$

$$\textcircled{8} 5\frac{2}{9} - 4\frac{2}{3} = 5\frac{2}{9} - 4\frac{6}{9} = 4\frac{11}{9} - 4\frac{6}{9} = \frac{5}{9}$$

$$\textcircled{9} 5\frac{1}{10} - 4\frac{1}{4} = 5\frac{2}{20} - 4\frac{5}{20} = 4\frac{22}{20} - 4\frac{5}{20} = \frac{17}{20}$$

$$\textcircled{10} 3\frac{11}{14} - 1\frac{3}{10} = 3\frac{55}{70} - 1\frac{21}{70} = 2\frac{34}{70} = 2\frac{17}{35}$$

I - 156

$$\textcircled{1} 1\frac{53}{60} \quad \textcircled{2} 2\frac{7}{15} \quad \textcircled{3} \frac{3}{4} \quad \textcircled{4} 2\frac{8}{9} \quad \textcircled{5} 3\frac{17}{30}$$

$$\textcircled{6} 3\frac{1}{9} \quad \textcircled{7} 6\frac{7}{8} \quad \textcircled{8} 4\frac{4}{5} \quad \textcircled{9} 1\frac{29}{33} \quad \textcircled{10} 1\frac{7}{36}$$

〈풀이〉〈Solutions〉

$$\textcircled{1} 3\frac{8}{15} - 1\frac{13}{20} = 3\frac{32}{60} - 1\frac{39}{60} = 2\frac{92}{60} - 1\frac{39}{60} = 1\frac{53}{60}$$

$$\textcircled{2} 2\frac{3}{5} - \frac{2}{15} = 2\frac{9}{15} - \frac{2}{15} = 2\frac{7}{15}$$

$$\textcircled{3} 2\frac{2}{3} - 1\frac{11}{12} = 2\frac{8}{12} - 1\frac{11}{12} = 1\frac{20}{12} - 1\frac{11}{12} = \frac{9}{12} = \frac{3}{4}$$

$$\textcircled{4} 3\frac{2}{3} - \frac{7}{9} = 3\frac{6}{9} - \frac{7}{9} = 2\frac{15}{9} - \frac{7}{9} = 2\frac{8}{9}$$

$$\textcircled{5} 4\frac{3}{10} - \frac{11}{15} = 4\frac{9}{30} - \frac{22}{30} = 3\frac{39}{30} - \frac{22}{30} = 3\frac{17}{30}$$

$$\textcircled{6} 4\frac{5}{18} - 1\frac{1}{6} = 4\frac{5}{18} - 1\frac{3}{18} = 3\frac{2}{18} = 3\frac{1}{9}$$

$$\textcircled{7} 7\frac{1}{2} - \frac{5}{8} = 7\frac{4}{8} - \frac{5}{8} = 6\frac{12}{8} - \frac{5}{8} = 6\frac{7}{8}$$

$$\textcircled{8} 5\frac{1}{2} - \frac{7}{10} = 5\frac{5}{10} - \frac{7}{10} = 4\frac{15}{10} - \frac{7}{10} = 4\frac{8}{10} = 4\frac{4}{5}$$

$$\textcircled{9} 3\frac{2}{11} - 1\frac{10}{33} = 3\frac{6}{33} - 1\frac{10}{33} = 2\frac{39}{33} - 1\frac{10}{33} = 1\frac{29}{33}$$

$$\textcircled{10} 2\frac{7}{9} - 1\frac{7}{12} = 2\frac{28}{36} - 1\frac{21}{36} = 1\frac{7}{36}$$

I-157

- ① $1\frac{2}{3}$ ② $1\frac{1}{6}$ ③ $1\frac{5}{18}$ ④ $3\frac{4}{9}$ ⑤ $2\frac{1}{42}$
 ⑥ $1\frac{9}{10}$ ⑦ $1\frac{7}{30}$ ⑧ $\frac{27}{40}$ ⑨ $3\frac{25}{36}$ ⑩ $1\frac{41}{48}$

〈풀이〉 (Solutions)

- ① $9\frac{1}{2} - 7\frac{5}{6} = 9\frac{3}{6} - 7\frac{5}{6} = 8\frac{9}{6} - 7\frac{5}{6}$
 $= 1\frac{4}{6} = 1\frac{2}{3}$
 ② $3\frac{1}{10} - 1\frac{14}{15} = 3\frac{3}{30} - 1\frac{28}{30} = 2\frac{33}{30} - 1\frac{28}{30}$
 $= 1\frac{5}{30} = 1\frac{1}{6}$
 ③ $4\frac{1}{9} - 2\frac{5}{6} = 4\frac{2}{18} - 2\frac{15}{18} = 3\frac{20}{18} - 2\frac{15}{18}$
 $= 1\frac{5}{18}$
 ④ $4 - \frac{5}{9} = 3\frac{9}{9} - \frac{5}{9} = 3\frac{4}{9}$
 ⑤ $3\frac{9}{14} - 1\frac{13}{21} = 3\frac{27}{42} - 1\frac{26}{42} = 2\frac{1}{42}$
 ⑥ $2\frac{4}{15} - \frac{11}{30} = 2\frac{8}{30} - \frac{11}{30} = 1\frac{38}{30} - \frac{11}{30}$
 $= 1\frac{27}{30} = 1\frac{9}{10}$
 ⑦ $3\frac{7}{10} - 2\frac{7}{15} = 3\frac{21}{30} - 2\frac{14}{30} = 1\frac{7}{30}$
 ⑧ $1\frac{3}{8} - \frac{7}{10} = 1\frac{15}{40} - \frac{28}{40} = \frac{55}{40} - \frac{28}{40} = \frac{27}{40}$
 ⑨ $7\frac{5}{18} - 3\frac{7}{12} = 7\frac{10}{36} - 3\frac{21}{36} = 6\frac{46}{36} - 3\frac{21}{36}$
 $= 3\frac{25}{36}$
 ⑩ $2\frac{1}{6} - \frac{5}{16} = 2\frac{8}{48} - \frac{15}{48} = 1\frac{56}{48} - \frac{15}{48}$
 $= 1\frac{41}{48}$

I-158

- ① $2\frac{3}{7}$ ② $\frac{11}{60}$ ③ $3\frac{47}{70}$ ④ $1\frac{47}{48}$ ⑤ $2\frac{17}{50}$
 ⑥ $2\frac{1}{4}$ ⑦ $\frac{3}{10}$ ⑧ $\frac{14}{15}$ ⑨ $\frac{43}{60}$ ⑩ $5\frac{49}{72}$

〈풀이〉 (Solutions)

- ① $5 - 2\frac{4}{7} = 4\frac{7}{7} - 2\frac{4}{7} = 2\frac{3}{7}$
 ② $2\frac{2}{15} - 1\frac{19}{20} = 2\frac{8}{60} - 1\frac{57}{60} = 1\frac{68}{60} - 1\frac{57}{60}$
 $= \frac{11}{60}$
 ③ $4\frac{3}{10} - \frac{22}{35} = 4\frac{21}{70} - \frac{44}{70} = 3\frac{91}{70} - \frac{44}{70}$
 $= 3\frac{47}{70}$
 ④ $2\frac{1}{6} - \frac{3}{16} = 2\frac{8}{48} - \frac{9}{48} = 1\frac{56}{48} - \frac{9}{48}$
 $= 1\frac{47}{48}$
 ⑤ $3\frac{9}{10} - 1\frac{14}{25} = 3\frac{45}{50} - 1\frac{28}{50}$
 $= 2\frac{17}{50}$
 ⑥ $4\frac{1}{7} - 1\frac{25}{28} = 4\frac{4}{28} - 1\frac{25}{28} = 3\frac{32}{28} - 1\frac{25}{28}$
 $= 2\frac{7}{28} = 2\frac{1}{4}$
 ⑦ $3\frac{2}{15} - 2\frac{5}{6} = 3\frac{4}{30} - 2\frac{25}{30} = 2\frac{34}{30} - 2\frac{25}{30}$
 $= \frac{9}{30} = \frac{3}{10}$
 ⑧ $3\frac{5}{6} - 2\frac{9}{10} = 3\frac{25}{30} - 2\frac{27}{30} = 2\frac{55}{30} - 2\frac{27}{30}$
 $= \frac{28}{30} = \frac{14}{15}$
 ⑨ $5\frac{7}{12} - 4\frac{13}{15} = 5\frac{35}{60} - 4\frac{52}{60} = 4\frac{95}{60} - 4\frac{52}{60}$
 $= \frac{43}{60}$
 ⑩ $6\frac{7}{18} - \frac{17}{24} = 6\frac{28}{72} - \frac{51}{72} = 5\frac{100}{72} - \frac{51}{72}$
 $= 5\frac{49}{72}$

I-159

- ① $\frac{20}{21}$ ② $1\frac{5}{9}$ ③ $2\frac{2}{3}$ ④ $1\frac{3}{4}$ ⑤ $2\frac{4}{5}$
 ⑥ $3\frac{19}{20}$ ⑦ $1\frac{11}{12}$ ⑧ $1\frac{1}{4}$ ⑨ $3\frac{16}{45}$ ⑩ $2\frac{13}{14}$

〈풀이〉 〈Solutions〉

- ① $3\frac{5}{7}-2\frac{16}{21}=3\frac{15}{21}-2\frac{16}{21}=2\frac{36}{21}-2\frac{16}{21}$
 $=\frac{20}{21}$
- ② $4\frac{1}{3}-2\frac{7}{9}=4\frac{3}{9}-2\frac{7}{9}=3\frac{12}{9}-2\frac{7}{9}=1\frac{5}{9}$
- ③ $5\frac{7}{24}-2\frac{5}{8}=5\frac{7}{24}-2\frac{15}{24}=4\frac{31}{24}-2\frac{15}{24}$
 $=2\frac{16}{24}=2\frac{2}{3}$
- ④ $4\frac{2}{3}-2\frac{11}{12}=4\frac{8}{12}-2\frac{11}{12}=3\frac{20}{12}-2\frac{11}{12}$
 $=1\frac{9}{12}=1\frac{3}{4}$
- ⑤ $4\frac{1}{2}-1\frac{7}{10}=4\frac{5}{10}-1\frac{7}{10}=3\frac{15}{10}-1\frac{7}{10}$
 $=2\frac{8}{10}=2\frac{4}{5}$
- ⑥ $5\frac{5}{12}-1\frac{7}{15}=5\frac{25}{60}-1\frac{28}{60}=4\frac{85}{60}-1\frac{28}{60}$
 $=3\frac{57}{60}=3\frac{19}{20}$
- ⑦ $4\frac{1}{15}-2\frac{3}{20}=4\frac{4}{60}-2\frac{9}{60}=3\frac{64}{60}-2\frac{9}{60}$
 $=1\frac{55}{60}=1\frac{11}{12}$
- ⑧ $5\frac{1}{12}-3\frac{5}{6}=5\frac{1}{12}-3\frac{10}{12}=4\frac{13}{12}-3\frac{10}{12}$
 $=1\frac{3}{12}=1\frac{1}{4}$
- ⑨ $8\frac{2}{9}-4\frac{13}{15}=8\frac{10}{45}-4\frac{39}{45}=7\frac{55}{45}-4\frac{39}{45}$
 $=3\frac{16}{45}$
- ⑩ $4\frac{4}{7}-1\frac{9}{14}=4\frac{8}{14}-1\frac{9}{14}=3\frac{22}{14}-1\frac{9}{14}$
 $=2\frac{13}{14}$

I - 160

- ① $2\frac{5}{6}$ ② $3\frac{1}{2}$ ③ $\frac{1}{2}$ ④ $2\frac{1}{3}$ ⑤ $2\frac{2}{3}$
- ⑥ $\frac{5}{8}$ ⑦ $\frac{1}{4}$ ⑧ $\frac{3}{8}$ ⑨ $\frac{3}{10}$ ⑩ $\frac{4}{21}$

〈풀이〉 〈Solutions〉

- ① $4\frac{10}{21}-1\frac{9}{14}=4\frac{20}{42}-1\frac{27}{42}=3\frac{62}{42}-1\frac{27}{42}$
 $=2\frac{35}{42}=2\frac{5}{6}$
- ② $6\frac{3}{10}-2\frac{4}{5}=6\frac{3}{10}-2\frac{8}{10}=5\frac{13}{10}-2\frac{8}{10}$
 $=3\frac{5}{10}=3\frac{1}{2}$
- ③ $3\frac{1}{3}-2\frac{5}{6}=3\frac{2}{6}-2\frac{5}{6}=2\frac{8}{6}-2\frac{5}{6}$
 $=\frac{3}{6}=\frac{1}{2}$
- ④ $5\frac{2}{15}-2\frac{4}{5}=5\frac{2}{15}-2\frac{12}{15}=4\frac{17}{15}-2\frac{12}{15}$
 $=2\frac{5}{15}=2\frac{1}{3}$
- ⑤ $5\frac{7}{24}-2\frac{5}{8}=5\frac{7}{24}-2\frac{15}{24}=4\frac{31}{24}-2\frac{15}{24}$
 $=2\frac{16}{24}=2\frac{2}{3}$
- ⑥ $\frac{3}{4}-\frac{1}{8}=\frac{6}{8}-\frac{1}{8}=\frac{5}{8}$
- ⑦ $\frac{1}{2}-\frac{1}{4}=\frac{2}{4}-\frac{1}{4}=\frac{1}{4}$
- ⑧ $\frac{1}{2}-\frac{1}{8}=\frac{4}{8}-\frac{1}{8}=\frac{3}{8}$
- ⑨ $\frac{2}{5}-\frac{1}{10}=\frac{4}{10}-\frac{1}{10}=\frac{3}{10}$
- ⑩ $\frac{1}{3}-\frac{1}{7}=\frac{7}{21}-\frac{3}{21}=\frac{4}{21}$

I - 161

- ① $\frac{1}{4}$ ② $1\frac{1}{6}$ ③ $2\frac{7}{12}$ ④ $1\frac{5}{24}$ ⑤ $3\frac{1}{24}$
- ⑥ $1\frac{1}{6}$ ⑦ $3\frac{11}{24}$ ⑧ $3\frac{1}{3}$ ⑨ $3\frac{5}{36}$ ⑩ $2\frac{1}{12}$

〈풀이〉 〈Solutions〉

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

④ $3\frac{3}{8}-2\frac{1}{6}=3\frac{9}{24}-2\frac{4}{24}=1\frac{5}{24}$

⑤ $5\frac{5}{12}-2\frac{3}{8}=5\frac{10}{24}-2\frac{9}{24}=3\frac{1}{24}$

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

⑦ $5\frac{5}{6}-2\frac{3}{8}=5\frac{20}{24}-2\frac{9}{24}=3\frac{11}{24}$

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

⑨ $5\frac{7}{12}-2\frac{4}{9}=5\frac{21}{36}-2\frac{16}{36}=3\frac{5}{36}$

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

I-162

① $4\frac{7}{10}$ ② $1\frac{1}{18}$ ③ $3\frac{19}{84}$ ④ $\frac{5}{8}$ ⑤ $\frac{5}{6}$

⑥ $\frac{1}{2}$ ⑦ $\frac{7}{8}$ ⑧ $\frac{11}{30}$ ⑨ $1\frac{3}{4}$ ⑩ $2\frac{5}{12}$

〈풀이〉 (Solutions)

① $5\frac{13}{15}-1\frac{1}{6}=5\frac{26}{30}-1\frac{5}{30}=4\frac{21}{30}=4\frac{7}{10}$

② $2\frac{5}{6}-1\frac{7}{9}=2\frac{15}{18}-1\frac{14}{18}=1\frac{1}{18}$

③ $7\frac{7}{12}-4\frac{5}{14}=7\frac{49}{84}-4\frac{30}{84}=3\frac{19}{84}$

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

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

⑥ $1\frac{2}{5}-\frac{9}{10}=1\frac{4}{10}-\frac{9}{10}=\frac{14}{10}-\frac{9}{10}=\frac{5}{10}=\frac{1}{2}$

⑦ $1\frac{1}{4}-\frac{3}{8}=1\frac{2}{8}-\frac{3}{8}=\frac{10}{8}-\frac{3}{8}=\frac{7}{8}$

⑧ $1\frac{1}{5}-\frac{5}{6}=1\frac{6}{30}-\frac{25}{30}=\frac{36}{30}-\frac{25}{30}=\frac{11}{30}$

⑨ $2\frac{1}{4}-1\frac{2}{4}=2\frac{1}{4}-\frac{2}{4}=1\frac{5}{4}-\frac{2}{4}=1\frac{3}{4}$

⑩ $5\frac{1}{3}-2\frac{11}{12}=5\frac{4}{12}-2\frac{11}{12}=4\frac{16}{12}-2\frac{11}{12}=2\frac{5}{12}$

I-163

① $2\frac{8}{9}$ ② $1\frac{4}{5}$ ③ $\frac{2}{3}$ ④ $1\frac{23}{30}$ ⑤ $1\frac{5}{24}$

⑥ $2\frac{14}{15}$ ⑦ $\frac{5}{9}$ ⑧ $2\frac{19}{24}$ ⑨ $\frac{1}{6}$ ⑩ $2\frac{1}{5}$

〈풀이〉 (Solutions)

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

② $3\frac{1}{2}-1\frac{7}{10}=3\frac{5}{10}-1\frac{7}{10}=2\frac{15}{10}-1\frac{7}{10}=1\frac{8}{10}=1\frac{4}{5}$

③ $1\frac{1}{2}-\frac{5}{6}=1\frac{3}{6}-\frac{5}{6}=\frac{9}{6}-\frac{5}{6}=\frac{4}{6}=\frac{2}{3}$

④ $2\frac{3}{5}-\frac{5}{6}=2\frac{18}{30}-\frac{25}{30}=1\frac{48}{30}-\frac{25}{30}=1\frac{23}{30}$

⑤ $3\frac{5}{6}-2\frac{5}{8}=3\frac{20}{24}-2\frac{15}{24}=1\frac{5}{24}$

⑥ $4\frac{1}{3}-1\frac{2}{5}=4\frac{5}{15}-1\frac{6}{15}=3\frac{20}{15}-1\frac{6}{15}=2\frac{14}{15}$

⑦ $5\frac{2}{9}-4\frac{2}{3}=5\frac{2}{9}-4\frac{6}{9}=4\frac{11}{9}-4\frac{6}{9}=\frac{5}{9}$

⑧ $3\frac{1}{6}-\frac{3}{8}=3\frac{4}{24}-\frac{9}{24}=2\frac{28}{24}-\frac{9}{24}=2\frac{19}{24}$

⑨ $\frac{2}{3}-\frac{1}{2}=\frac{4}{6}-\frac{3}{6}=\frac{1}{6}$

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

I-164

① $1\frac{7}{18}$ ② $3\frac{5}{7}$ ③ $\frac{1}{3}$ ④ $1\frac{2}{7}$ ⑤ $2\frac{13}{24}$

⑥ $3\frac{9}{35}$ ⑦ $2\frac{7}{48}$ ⑧ $1\frac{17}{30}$ ⑨ $4\frac{7}{15}$ ⑩ $3\frac{19}{24}$

〈풀이〉 (Solutions)

$$① 3\frac{1}{6} - 1\frac{7}{9} = 3\frac{3}{18} - 1\frac{14}{18} = 2\frac{21}{18} - 1\frac{14}{18}$$

$$= 1\frac{7}{18}$$

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

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

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

$$⑤ 3\frac{1}{6} - \frac{5}{8} = 3\frac{4}{24} - \frac{15}{24} = 2\frac{28}{24} - \frac{15}{24}$$

$$= 2\frac{13}{24}$$

$$⑥ 5\frac{9}{10} - 2\frac{9}{14} = 5\frac{63}{70} - 2\frac{45}{70} = 3\frac{18}{70} = 3\frac{9}{35}$$

$$⑦ 3\frac{5}{6} - 1\frac{11}{16} = 3\frac{40}{48} - 1\frac{33}{48} = 2\frac{7}{48}$$

$$⑧ 4\frac{2}{3} - 3\frac{1}{10} = 4\frac{20}{30} - 3\frac{3}{30} = 1\frac{17}{30}$$

$$⑨ 5\frac{3}{10} - \frac{5}{6} = 5\frac{9}{30} - \frac{25}{30} = 4\frac{39}{30} - \frac{25}{30}$$

$$= 4\frac{14}{30} = 4\frac{7}{15}$$

$$⑩ 5\frac{11}{12} - 2\frac{1}{8} = 5\frac{22}{24} - 2\frac{3}{24} = 3\frac{19}{24}$$

I - 165

$$① 3\frac{19}{24} \quad ② 3\frac{2}{5} \quad ③ \frac{13}{35} \quad ④ 3\frac{1}{18} \quad ⑤ 1\frac{17}{18}$$

$$⑥ 2\frac{22}{45} \quad ⑦ 1\frac{15}{16} \quad ⑧ \frac{17}{20} \quad ⑨ 1\frac{19}{20} \quad ⑩ 3\frac{1}{3}$$

〈풀이〉 (Solutions)

$$① 4\frac{5}{8} - \frac{5}{6} = 4\frac{15}{24} - \frac{20}{24} = 3\frac{39}{24} - \frac{20}{24}$$

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

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

$$③ 3\frac{3}{10} - 2\frac{13}{14} = 3\frac{21}{70} - 2\frac{65}{70} = 2\frac{91}{70} - 2\frac{65}{70}$$

$$= \frac{26}{70} = \frac{13}{35}$$

$$④ 3\frac{2}{3} - \frac{11}{18} = 3\frac{12}{18} - \frac{11}{18} = 3\frac{1}{18}$$

$$⑤ 2\frac{5}{6} - \frac{8}{9} = 2\frac{15}{18} - \frac{16}{18} = 1\frac{33}{18} - \frac{16}{18} = 1\frac{17}{18}$$

$$⑥ 4\frac{2}{9} - 1\frac{11}{15} = 4\frac{10}{45} - 1\frac{33}{45} = 3\frac{55}{45} - 1\frac{33}{45}$$

$$= 2\frac{22}{45}$$

$$⑦ 2\frac{1}{2} - \frac{9}{16} = 2\frac{8}{16} - \frac{9}{16} = 1\frac{24}{16} - \frac{9}{16}$$

$$= 1\frac{15}{16}$$

$$⑧ 2\frac{3}{4} - 1\frac{9}{10} = 2\frac{15}{20} - 1\frac{18}{20} = 1\frac{35}{20} - 1\frac{18}{20}$$

$$= \frac{17}{20}$$

$$⑨ 3\frac{5}{12} - 1\frac{7}{15} = 3\frac{25}{60} - 1\frac{28}{60} = 2\frac{85}{60} - 1\frac{28}{60}$$

$$= 1\frac{57}{60} = 1\frac{19}{20}$$

$$⑩ 8\frac{1}{3} - 5 = 3\frac{1}{3}$$

I - 166

$$① \frac{3}{4} \quad ② \frac{5}{6} \quad ③ \frac{2}{15} \quad ④ \frac{1}{3} \quad ⑤ \frac{13}{21}$$

$$⑥ \frac{11}{20} \quad ⑦ 4\frac{2}{3} \quad ⑧ \frac{5}{12} \quad ⑨ 4\frac{1}{2} \quad ⑩ \frac{1}{8}$$

〈풀이〉 (Solutions)

※ 분모가 다른 두 분수의 덧셈과 뺄셈에서는 두 분모의 최소공배수로 통분하여 계산하는 것이 중요합니다. 아래의 풀이와 같이 최소공배수로 통분하여 계산하는지 점검하여 주십시오.

For addition and subtraction of fractions with unlike denominators, it is important to reduce to common denominator by using the least common multiple. Please check whether students solve problems by reducing to common denominator by using the least common multiple as shown below.

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

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

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

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

$$⑤ \frac{1}{3} + \frac{2}{7} = \frac{7}{21} + \frac{6}{21} = \frac{13}{21}$$

$$⑥ \frac{3}{4} - \frac{1}{5} = \frac{15}{20} - \frac{4}{20} = \frac{11}{20}$$

$$\textcircled{7} 5\frac{1}{2} - \frac{5}{6} = 5\frac{3}{6} - \frac{5}{6} = 4\frac{9}{6} - \frac{5}{6} = 4\frac{4}{6} = 4\frac{2}{3}$$

$$\textcircled{8} \frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

$$\textcircled{9} 3 + 1\frac{1}{2} = 4\frac{1}{2}$$

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

I - 167

$$\textcircled{1} \frac{11}{12} \quad \textcircled{2} \frac{8}{15} \quad \textcircled{3} \frac{11}{35} \quad \textcircled{4} \frac{5}{6} \quad \textcircled{5} \frac{1}{2}$$

$$\textcircled{6} 1\frac{1}{6} \quad \textcircled{7} \frac{7}{15} \quad \textcircled{8} 1\frac{5}{12} \quad \textcircled{9} \frac{1}{2} \quad \textcircled{10} 1\frac{4}{9}$$

〈풀이〉(Solutions)

$$\textcircled{1} 1\frac{2}{3} - \frac{3}{4} = 1\frac{8}{12} - \frac{9}{12} = \frac{20}{12} - \frac{9}{12} = \frac{11}{12}$$

$$\textcircled{2} \frac{1}{5} + \frac{1}{3} = \frac{3}{15} + \frac{5}{15} = \frac{8}{15}$$

$$\textcircled{3} \frac{3}{5} - \frac{2}{7} = \frac{21}{35} - \frac{10}{35} = \frac{11}{35}$$

$$\textcircled{4} 2\frac{1}{2} - 1\frac{2}{3} = 2\frac{3}{6} - 1\frac{4}{6} = 1\frac{9}{6} - 1\frac{4}{6} = \frac{5}{6}$$

$$\textcircled{5} 1 - \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{1}{2}$$

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

$$\textcircled{7} \frac{2}{3} - \frac{1}{5} = \frac{10}{15} - \frac{3}{15} = \frac{7}{15}$$

$$\textcircled{8} \frac{2}{3} + \frac{3}{4} = \frac{8}{12} + \frac{9}{12} = \frac{17}{12} = 1\frac{5}{12}$$

$$\textcircled{9} \frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\textcircled{10} \frac{2}{3} + \frac{7}{9} = \frac{6}{9} + \frac{7}{9} = \frac{13}{9} = 1\frac{4}{9}$$

I - 168

$$\textcircled{1} \frac{3}{10} \quad \textcircled{2} \frac{3}{10} \quad \textcircled{3} \frac{1}{2} \quad \textcircled{4} \frac{11}{24} \quad \textcircled{5} \frac{1}{12}$$

$$\textcircled{6} \frac{1}{6} \quad \textcircled{7} \frac{11}{15} \quad \textcircled{8} \frac{11}{12} \quad \textcircled{9} \frac{1}{10} \quad \textcircled{10} 1\frac{1}{2}$$

〈풀이〉(Solutions)

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

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

$$\textcircled{3} \frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\textcircled{4} \frac{5}{6} - \frac{3}{8} = \frac{20}{24} - \frac{9}{24} = \frac{11}{24}$$

$$\textcircled{5} \frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$$

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

$$\textcircled{7} \frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$$

$$\textcircled{8} \frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

$$\textcircled{9} \frac{2}{5} - \frac{3}{10} = \frac{4}{10} - \frac{3}{10} = \frac{1}{10}$$

$$\textcircled{10} \frac{2}{3} + \frac{5}{6} = \frac{4}{6} + \frac{5}{6} = \frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$$

I - 169

$$\textcircled{1} 1\frac{2}{9} \quad \textcircled{2} \frac{7}{12} \quad \textcircled{3} \frac{11}{12} \quad \textcircled{4} \frac{1}{9} \quad \textcircled{5} \frac{7}{10}$$

$$\textcircled{6} \frac{4}{15} \quad \textcircled{7} \frac{7}{10} \quad \textcircled{8} \frac{65}{84} \quad \textcircled{9} 1\frac{7}{24} \quad \textcircled{10} \frac{11}{20}$$

〈풀이〉(Solutions)

$$\textcircled{1} \frac{2}{3} + \frac{5}{9} = \frac{6}{9} + \frac{5}{9} = \frac{11}{9} = 1\frac{2}{9}$$

$$\textcircled{2} \frac{5}{6} - \frac{1}{4} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$$

$$\textcircled{3} \frac{1}{4} + \frac{2}{3} = \frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$

$$\textcircled{4} \frac{2}{3} - \frac{5}{9} = \frac{6}{9} - \frac{5}{9} = \frac{1}{9}$$

$$\textcircled{5} \frac{9}{10} - \frac{1}{5} = \frac{9}{10} - \frac{2}{10} = \frac{7}{10}$$

$$\textcircled{6} \frac{1}{10} + \frac{1}{6} = \frac{3}{30} + \frac{5}{30} = \frac{8}{30} = \frac{4}{15}$$

$$\textcircled{7} 1 - \frac{3}{10} = \frac{10}{10} - \frac{3}{10} = \frac{7}{10}$$

$$\textcircled{8} \frac{6}{7} - \frac{1}{12} = \frac{72}{84} - \frac{7}{84} = \frac{65}{84}$$

$$\textcircled{9} \frac{5}{12} + \frac{7}{8} = \frac{10}{24} + \frac{21}{24} = \frac{31}{24} = 1 \frac{7}{24}$$

$$\textcircled{10} \frac{2}{15} + \frac{5}{12} = \frac{8}{60} + \frac{25}{60} = \frac{33}{60} = \frac{11}{20}$$

I - 170

$$\textcircled{1} \frac{1}{2} \quad \textcircled{2} 1 \frac{1}{6} \quad \textcircled{3} \frac{1}{4} \quad \textcircled{4} \frac{4}{9} \quad \textcircled{5} 1 \frac{11}{30}$$

$$\textcircled{6} \frac{1}{3} \quad \textcircled{7} \frac{1}{2} \quad \textcircled{8} \frac{5}{12} \quad \textcircled{9} \frac{17}{70} \quad \textcircled{10} 1 \frac{29}{36}$$

〈풀이〉 〈Solutions〉

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

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

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

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

$$\textcircled{5} \frac{9}{10} + \frac{7}{15} = \frac{27}{30} + \frac{14}{30} = \frac{41}{30} = 1 \frac{11}{30}$$

$$\textcircled{6} \frac{3}{4} - \frac{5}{12} = \frac{9}{12} - \frac{5}{12} = \frac{4}{12} = \frac{1}{3}$$

$$\textcircled{7} \frac{5}{7} - \frac{3}{14} = \frac{10}{14} - \frac{3}{14} = \frac{7}{14} = \frac{1}{2}$$

$$\textcircled{8} \frac{1}{2} - \frac{1}{12} = \frac{6}{12} - \frac{1}{12} = \frac{5}{12}$$

$$\textcircled{9} \frac{1}{7} + \frac{1}{10} = \frac{10}{70} + \frac{7}{70} = \frac{17}{70}$$

$$\textcircled{10} \frac{11}{12} + \frac{8}{9} = \frac{33}{36} + \frac{32}{36} = \frac{65}{36} = 1 \frac{29}{36}$$

I - 171

$$\textcircled{1} \frac{2}{21} \quad \textcircled{2} \frac{3}{16} \quad \textcircled{3} 4 \frac{1}{8} \quad \textcircled{4} 2 \frac{1}{2} \quad \textcircled{5} 1 \frac{8}{9}$$

$$\textcircled{6} 1 \frac{5}{8} \quad \textcircled{7} 1 \frac{7}{24} \quad \textcircled{8} 2 \frac{7}{8} \quad \textcircled{9} 3 \frac{3}{20} \quad \textcircled{10} 2 \frac{1}{2}$$

〈풀이〉 〈Solutions〉

$$\textcircled{1} \frac{1}{6} - \frac{1}{14} = \frac{7}{42} - \frac{3}{42} = \frac{4}{42} = \frac{2}{21}$$

$$\textcircled{2} \frac{7}{16} - \frac{1}{4} = \frac{7}{16} - \frac{4}{16} = \frac{3}{16}$$

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

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

$$\textcircled{5} 2 \frac{1}{3} - \frac{4}{9} = 2 \frac{3}{9} - \frac{4}{9} = 1 \frac{12}{9} - \frac{4}{9} = 1 \frac{8}{9}$$

$$\textcircled{6} \frac{3}{8} + 1 \frac{1}{4} = \frac{3}{8} + 1 \frac{2}{8} = 1 \frac{5}{8}$$

$$\textcircled{7} 2 \frac{1}{6} - \frac{7}{8} = 2 \frac{4}{24} - \frac{21}{24} = 1 \frac{28}{24} - \frac{21}{24} = 1 \frac{7}{24}$$

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

$$\textcircled{9} \frac{3}{4} + 2 \frac{2}{5} = \frac{15}{20} + 2 \frac{8}{20} = 2 \frac{23}{20} = 3 \frac{3}{20}$$

$$\textcircled{10} \frac{2}{3} + 1 \frac{5}{6} = \frac{4}{6} + 1 \frac{5}{6} = 1 \frac{9}{6} = 1 \frac{3}{2} = 2 \frac{1}{2}$$

I - 172

$$\textcircled{1} 1 \frac{35}{36} \quad \textcircled{2} \frac{20}{21} \quad \textcircled{3} 2 \frac{7}{8} \quad \textcircled{4} 2 \frac{1}{6} \quad \textcircled{5} \frac{1}{3}$$

$$\textcircled{6} 1 \frac{7}{8} \quad \textcircled{7} 5 \frac{7}{12} \quad \textcircled{8} 2 \frac{7}{18} \quad \textcircled{9} 1 \frac{7}{12} \quad \textcircled{10} 1 \frac{11}{12}$$

〈풀이〉 〈Solutions〉

$$\textcircled{1} 1 \frac{5}{9} + \frac{5}{12} = 1 \frac{20}{36} + \frac{15}{36} = 1 \frac{35}{36}$$

$$\textcircled{2} 2 \frac{1}{7} - 1 \frac{4}{21} = 2 \frac{3}{21} - 1 \frac{4}{21} = 1 \frac{24}{21} - 1 \frac{4}{21} = \frac{20}{21}$$

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

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

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

$$\textcircled{6} 3 \frac{3}{8} - 1 \frac{1}{2} = 3 \frac{3}{8} - 1 \frac{4}{8} = 2 \frac{11}{8} - 1 \frac{4}{8} = 1 \frac{7}{8}$$

$$\textcircled{7} 3\frac{5}{6} + 1\frac{3}{4} = 3\frac{10}{12} + 1\frac{9}{12} = 4\frac{19}{12} = 5\frac{7}{12}$$

$$\textcircled{8} 2\frac{2}{9} + \frac{1}{6} = 2\frac{4}{18} + \frac{3}{18} = 2\frac{7}{18}$$

$$\textcircled{9} 2\frac{1}{3} - \frac{3}{4} = 2\frac{4}{12} - \frac{9}{12} = 1\frac{16}{12} - \frac{9}{12} = 1\frac{7}{12}$$

$$\textcircled{10} 3\frac{2}{3} - 1\frac{3}{4} = 3\frac{8}{12} - 1\frac{9}{12} = 2\frac{20}{12} - 1\frac{9}{12} = 1\frac{11}{12}$$

I - 173

$$\textcircled{1} 2\frac{7}{10} \quad \textcircled{2} 2\frac{1}{8} \quad \textcircled{3} 3\frac{2}{15} \quad \textcircled{4} \frac{11}{21} \quad \textcircled{5} 1\frac{1}{2}$$

$$\textcircled{6} 1\frac{1}{6} \quad \textcircled{7} 3\frac{3}{4} \quad \textcircled{8} 4\frac{1}{6} \quad \textcircled{9} 3\frac{31}{36} \quad \textcircled{10} 2\frac{1}{12}$$

〈풀이〉 (Solutions)

$$\textcircled{1} 4\frac{1}{10} - 1\frac{2}{5} = 4\frac{1}{10} - 1\frac{4}{10} = 3\frac{11}{10} - 1\frac{4}{10} = 2\frac{7}{10}$$

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

$$\textcircled{3} 5\frac{3}{10} - 2\frac{1}{6} = 5\frac{9}{30} - 2\frac{5}{30} = 3\frac{4}{30} = 3\frac{2}{15}$$

$$\textcircled{4} 1\frac{3}{7} - \frac{19}{21} = 1\frac{9}{21} - \frac{19}{21} = \frac{30}{21} - \frac{19}{21} = \frac{11}{21}$$

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

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

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

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

$$\textcircled{9} 1\frac{3}{4} + 2\frac{1}{9} = 1\frac{27}{36} + 2\frac{4}{36} = 3\frac{31}{36}$$

$$\textcircled{10} 4\frac{1}{3} - 2\frac{1}{4} = 4\frac{4}{12} - 2\frac{3}{12} = 2\frac{1}{12}$$

I - 174

$$\textcircled{1} 4\frac{1}{4} \quad \textcircled{2} 5\frac{31}{36} \quad \textcircled{3} 2\frac{1}{6} \quad \textcircled{4} \frac{2}{3} \quad \textcircled{5} 2\frac{7}{8}$$

$$\textcircled{6} 1\frac{7}{12} \quad \textcircled{7} 1\frac{1}{12} \quad \textcircled{8} \frac{7}{12} \quad \textcircled{9} \frac{13}{24} \quad \textcircled{10} 6\frac{5}{24}$$

〈풀이〉 (Solutions)

$$\textcircled{1} 1\frac{19}{20} + 2\frac{3}{10} = 1\frac{19}{20} + 2\frac{6}{20} = 3\frac{25}{20} = 3\frac{5}{4} = 4\frac{1}{4}$$

$$\textcircled{2} 4\frac{5}{12} + 1\frac{4}{9} = 4\frac{15}{36} + 1\frac{16}{36} = 5\frac{31}{36}$$

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

$$\textcircled{4} 2\frac{1}{2} - 1\frac{5}{6} = 2\frac{3}{6} - 1\frac{5}{6} = 1\frac{9}{6} - 1\frac{5}{6} = \frac{4}{6} = \frac{2}{3}$$

$$\textcircled{5} 3\frac{1}{2} - \frac{5}{8} = 3\frac{4}{8} - \frac{5}{8} = 2\frac{12}{8} - \frac{5}{8} = 2\frac{7}{8}$$

$$\textcircled{6} 3\frac{1}{3} - 1\frac{3}{4} = 3\frac{4}{12} - 1\frac{9}{12} = 2\frac{16}{12} - 1\frac{9}{12} = 1\frac{7}{12}$$

$$\textcircled{7} 3\frac{3}{4} - 2\frac{2}{3} = 3\frac{9}{12} - 2\frac{8}{12} = 1\frac{1}{12}$$

$$\textcircled{8} 2\frac{1}{4} - 1\frac{2}{3} = 2\frac{3}{12} - 1\frac{8}{12} = 1\frac{15}{12} - 1\frac{8}{12} = \frac{7}{12}$$

$$\textcircled{9} 3\frac{3}{8} - 2\frac{5}{6} = 3\frac{9}{24} - 2\frac{20}{24} = 2\frac{33}{24} - 2\frac{20}{24} = \frac{13}{24}$$

$$\textcircled{10} 3\frac{3}{8} + 2\frac{5}{6} = 3\frac{9}{24} + 2\frac{20}{24} = 5\frac{29}{24} = 6\frac{5}{24}$$

I - 175

$$\textcircled{1} 4\frac{11}{12} \quad \textcircled{2} 1\frac{29}{36} \quad \textcircled{3} 2\frac{5}{6} \quad \textcircled{4} 2\frac{11}{12} \quad \textcircled{5} 6\frac{35}{36}$$

$$\textcircled{6} 8\frac{3}{4} \quad \textcircled{7} 2\frac{7}{36} \quad \textcircled{8} 1\frac{19}{21} \quad \textcircled{9} 1\frac{5}{8} \quad \textcircled{10} \frac{1}{2}$$

〈풀이〉 (Solutions)

$$\textcircled{1} 3\frac{2}{3} + 1\frac{1}{4} = 3\frac{8}{12} + 1\frac{3}{12} = 4\frac{11}{12}$$

$$\textcircled{2} 3\frac{1}{4} - 1\frac{4}{9} = 3\frac{9}{36} - 1\frac{16}{36} = 2\frac{45}{36} - 1\frac{16}{36} = 1\frac{29}{36}$$

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

$$\textcircled{4} 4\frac{2}{3} - 1\frac{3}{4} = 4\frac{8}{12} - 1\frac{9}{12} = 3\frac{20}{12} - 1\frac{9}{12} = 2\frac{11}{12}$$

$$\textcircled{5} 4\frac{3}{4} + 2\frac{2}{9} = 4\frac{27}{36} + 2\frac{8}{36} = 6\frac{35}{36}$$

$$\textcircled{6} 5\frac{1}{2} + 3\frac{1}{4} = 5\frac{2}{4} + 3\frac{1}{4} = 8\frac{3}{4}$$

$$\textcircled{7} 4\frac{3}{4} - 2\frac{5}{9} = 4\frac{27}{36} - 2\frac{20}{36} = 2\frac{7}{36}$$

$$\textcircled{8} 3\frac{1}{7} - 1\frac{5}{21} = 3\frac{3}{21} - 1\frac{5}{21} = 2\frac{24}{21} - 1\frac{5}{21} = 1\frac{19}{21}$$

$$\textcircled{9} 1\frac{3}{8} + \frac{1}{4} = 1\frac{3}{8} + \frac{2}{8} = 1\frac{5}{8}$$

$$\textcircled{10} \frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

I - 176

$$\textcircled{1} \frac{5}{6} \quad \textcircled{2} \frac{5}{12} \quad \textcircled{3} \frac{1}{12} \quad \textcircled{4} \frac{5}{9} \quad \textcircled{5} \frac{1}{15}$$

$$\textcircled{6} 1\frac{11}{12} \quad \textcircled{7} 1\frac{11}{12} \quad \textcircled{8} 1\frac{11}{12} \quad \textcircled{9} 3\frac{2}{9} \quad \textcircled{10} 1\frac{1}{12}$$

〈풀이〉 (Solutions)

$$\textcircled{1} \frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

$$\textcircled{2} \frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

$$\textcircled{3} \frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$$

$$\textcircled{4} \frac{1}{3} + \frac{2}{9} = \frac{3}{9} + \frac{2}{9} = \frac{5}{9}$$

$$\textcircled{5} \frac{1}{6} - \frac{1}{10} = \frac{5}{30} - \frac{3}{30} = \frac{2}{30} = \frac{1}{15}$$

$$\textcircled{6} 3\frac{1}{6} - 1\frac{1}{4} = 3\frac{2}{12} - 1\frac{3}{12} = 2\frac{14}{12} - 1\frac{3}{12} = 1\frac{11}{12}$$

$$\textcircled{7} 2\frac{2}{3} - \frac{3}{4} = 2\frac{8}{12} - \frac{9}{12} = 1\frac{20}{12} - \frac{9}{12} = 1\frac{11}{12}$$

$$\textcircled{8} 1\frac{1}{4} + \frac{2}{3} = 1\frac{3}{12} + \frac{8}{12} = 1\frac{11}{12}$$

$$\textcircled{9} 4\frac{5}{9} - 1\frac{1}{3} = 4\frac{5}{9} - 1\frac{3}{9} = 3\frac{2}{9}$$

$$\textcircled{10} \frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12} = \frac{13}{12} = 1\frac{1}{12}$$

I - 177

$$\textcircled{1} 1\frac{7}{8} \quad \textcircled{2} 1\frac{1}{8} \quad \textcircled{3} 2\frac{3}{4} \quad \textcircled{4} 3\frac{9}{20} \quad \textcircled{5} 1\frac{11}{18}$$

$$\textcircled{6} 4\frac{1}{6} \quad \textcircled{7} 2\frac{1}{10} \quad \textcircled{8} 5\frac{3}{28} \quad \textcircled{9} 1\frac{5}{6} \quad \textcircled{10} 9\frac{3}{16}$$

〈풀이〉 (Solutions)

$$\textcircled{1} 1\frac{1}{4} + \frac{5}{8} = 1\frac{2}{8} + \frac{5}{8} = 1\frac{7}{8}$$

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

$$\textcircled{3} 4\frac{1}{6} - 1\frac{5}{12} = 4\frac{2}{12} - 1\frac{5}{12} = 3\frac{14}{12} - 1\frac{5}{12} = 2\frac{9}{12} = 2\frac{3}{4}$$

$$\textcircled{4} 2\frac{3}{4} + \frac{7}{10} = 2\frac{15}{20} + \frac{14}{20} = 2\frac{29}{20} = 3\frac{9}{20}$$

$$\textcircled{5} 2\frac{1}{6} - \frac{5}{9} = 2\frac{3}{18} - \frac{10}{18} = 1\frac{21}{18} - \frac{10}{18} = 1\frac{11}{18}$$

$$\textcircled{6} 3\frac{1}{4} + \frac{11}{12} = 3\frac{3}{12} + \frac{11}{12} = 3\frac{14}{12} = 3\frac{7}{6} = 4\frac{1}{6}$$

$$\textcircled{7} 6\frac{3}{4} - 4\frac{13}{20} = 6\frac{15}{20} - 4\frac{13}{20} = 2\frac{2}{20} = 2\frac{1}{10}$$

$$\textcircled{8} 4\frac{3}{4} + \frac{5}{14} = 4\frac{21}{28} + \frac{10}{28} = 4\frac{31}{28} = 5\frac{3}{28}$$

$$\textcircled{9} 2\frac{3}{4} - \frac{11}{12} = 2\frac{9}{12} - \frac{11}{12} = 1\frac{21}{12} - \frac{11}{12} = 1\frac{10}{12} = 1\frac{5}{6}$$

$$\textcircled{10} 5\frac{1}{4} + 3\frac{15}{16} = 5\frac{4}{16} + 3\frac{15}{16} = 8\frac{19}{16} = 9\frac{3}{16}$$

I-178

- ① $2\frac{13}{15}$ ② $2\frac{1}{3}$ ③ $1\frac{19}{24}$ ④ $\frac{1}{90}$ ⑤ $\frac{44}{45}$
 ⑥ $3\frac{13}{30}$ ⑦ $6\frac{4}{7}$ ⑧ $1\frac{17}{18}$ ⑨ $1\frac{13}{15}$ ⑩ $3\frac{16}{45}$

〈풀이〉 (Solutions)

- ① $3\frac{1}{6} - \frac{3}{10} = 3\frac{5}{30} - \frac{9}{30} = 2\frac{35}{30} - \frac{9}{30}$
 $= 2\frac{26}{30} = 2\frac{13}{15}$
 ② $1\frac{3}{5} + \frac{11}{15} = 1\frac{9}{15} + \frac{11}{15} = 1\frac{20}{15} = 1\frac{4}{3} = 2\frac{1}{3}$
 ③ $2\frac{3}{8} - \frac{7}{12} = 2\frac{9}{24} - \frac{14}{24} = 1\frac{33}{24} - \frac{14}{24}$
 $= 1\frac{19}{24}$
 ④ $\frac{1}{9} - \frac{1}{10} = \frac{10}{90} - \frac{9}{90} = \frac{1}{90}$
 ⑤ $2\frac{4}{9} - 1\frac{7}{15} = 2\frac{20}{45} - 1\frac{21}{45} = 1\frac{65}{45} - 1\frac{21}{45}$
 $= \frac{44}{45}$
 ⑥ $2\frac{1}{6} + 1\frac{4}{15} = 2\frac{5}{30} + 1\frac{8}{30} = 3\frac{13}{30}$
 ⑦ $9 - 2\frac{3}{7} = 8\frac{7}{7} - 2\frac{3}{7} = 6\frac{4}{7}$
 ⑧ $3\frac{5}{9} - 1\frac{11}{18} = 3\frac{10}{18} - 1\frac{11}{18} = 2\frac{28}{18} - 1\frac{11}{18}$
 $= 1\frac{17}{18}$
 ⑨ $5\frac{1}{5} - 3\frac{1}{3} = 5\frac{3}{15} - 3\frac{5}{15} = 4\frac{18}{15} - 3\frac{5}{15}$
 $= 1\frac{13}{15}$
 ⑩ $12\frac{2}{9} - 8\frac{13}{15} = 12\frac{10}{45} - 8\frac{39}{45} = 11\frac{55}{45} - 8\frac{39}{45}$
 $= 3\frac{16}{45}$

I-179

- ① $\frac{33}{35}$ ② $4\frac{31}{80}$ ③ $1\frac{44}{45}$ ④ $1\frac{5}{9}$ ⑤ $2\frac{19}{20}$
 ⑥ $7\frac{5}{84}$ ⑦ $2\frac{31}{36}$ ⑧ $8\frac{13}{72}$ ⑨ $\frac{1}{6}$ ⑩ $\frac{3}{4}$

〈풀이〉 (Solutions)

- ① $1\frac{3}{10} - \frac{5}{14} = 1\frac{21}{70} - \frac{25}{70} = \frac{91}{70} - \frac{25}{70}$
 $= \frac{66}{70} = \frac{33}{35}$
 ② $3\frac{7}{10} + \frac{11}{16} = 3\frac{56}{80} + \frac{55}{80} = 3\frac{111}{80} = 4\frac{31}{80}$
 ③ $4\frac{7}{10} - 2\frac{13}{18} = 4\frac{63}{90} - 2\frac{65}{90} = 3\frac{153}{90} - 2\frac{65}{90}$
 $= 1\frac{88}{90} = 1\frac{44}{45}$
 ④ $2\frac{1}{6} - \frac{11}{18} = 2\frac{3}{18} - \frac{11}{18} = 1\frac{21}{18} - \frac{11}{18}$
 $= 1\frac{10}{18} = 1\frac{5}{9}$
 ⑤ $5\frac{9}{10} - 2\frac{19}{20} = 5\frac{18}{20} - 2\frac{19}{20} = 4\frac{38}{20} - 2\frac{19}{20}$
 $= 2\frac{19}{20}$
 ⑥ $4\frac{7}{12} + 2\frac{10}{21} = 4\frac{49}{84} + 2\frac{40}{84} = 6\frac{89}{84} = 7\frac{5}{84}$
 ⑦ $3\frac{7}{12} - \frac{13}{18} = 3\frac{21}{36} - \frac{26}{36} = 2\frac{57}{36} - \frac{26}{36}$
 $= 2\frac{31}{36}$
 ⑧ $5\frac{8}{9} + 2\frac{7}{24} = 5\frac{64}{72} + 2\frac{21}{72} = 7\frac{85}{72} = 8\frac{13}{72}$
 ⑨ $\frac{3}{14} - \frac{1}{21} = \frac{9}{42} - \frac{2}{42} = \frac{7}{42} = \frac{1}{6}$
 ⑩ $1\frac{1}{14} - \frac{9}{28} = 1\frac{2}{28} - \frac{9}{28} = \frac{30}{28} - \frac{9}{28}$
 $= \frac{21}{28} = \frac{3}{4}$

I-180

- ① $8\frac{2}{27}$ ② $\frac{8}{15}$ ③ $1\frac{4}{15}$ ④ $3\frac{43}{60}$ ⑤ $14\frac{1}{6}$
 ⑥ $6\frac{5}{6}$ ⑦ $3\frac{16}{21}$ ⑧ $3\frac{2}{3}$ ⑨ $3\frac{1}{28}$ ⑩ $4\frac{1}{30}$

〈풀이〉 (Solutions)

- ① $3\frac{8}{9} + 4\frac{5}{27} = 3\frac{24}{27} + 4\frac{5}{27} = 7\frac{29}{27} = 8\frac{2}{27}$
 ② $1\frac{1}{5} - \frac{2}{3} = 1\frac{3}{15} - \frac{10}{15} = \frac{18}{15} - \frac{10}{15} = \frac{8}{15}$

$$\textcircled{3} 2\frac{1}{6} - \frac{9}{10} = 2\frac{5}{30} - \frac{27}{30} = 1\frac{35}{30} - \frac{27}{30} \\ = 1\frac{8}{30} = 1\frac{4}{15}$$

$$\textcircled{4} 3\frac{5}{12} + \frac{3}{10} = 3\frac{25}{60} + \frac{18}{60} = 3\frac{43}{60}$$

$$\textcircled{5} 8\frac{4}{5} + 5\frac{11}{30} = 8\frac{24}{30} + 5\frac{11}{30} \\ = 13\frac{35}{30} = 13\frac{7}{6} = 14\frac{1}{6}$$

$$\textcircled{6} 1\frac{3}{5} + 5\frac{7}{30} = 1\frac{18}{30} + 5\frac{7}{30} \\ = 6\frac{25}{30} = 6\frac{5}{6}$$

$$\textcircled{7} 4\frac{8}{15} - \frac{27}{35} = 4\frac{56}{105} - \frac{81}{105} = 3\frac{161}{105} - \frac{81}{105} \\ = 3\frac{80}{105} = 3\frac{16}{21}$$

$$\textcircled{8} 2\frac{3}{4} + \frac{11}{12} = 2\frac{9}{12} + \frac{11}{12} = 2\frac{20}{12} = 2\frac{5}{3} = 3\frac{2}{3}$$

$$\textcircled{9} 3\frac{1}{4} - \frac{3}{14} = 3\frac{7}{28} - \frac{6}{28} = 3\frac{1}{28}$$

$$\textcircled{10} 3\frac{7}{15} + \frac{17}{30} = 3\frac{14}{30} + \frac{17}{30} = 3\frac{31}{30} = 4\frac{1}{30}$$

• 성취도 테스트 Achievement test

I3 - ①

$$(1) 7\frac{2}{3} \quad (2) 1\frac{5}{6} \quad (3) 4\frac{4}{7} \quad (4) 6\frac{4}{5} \quad (5) \frac{2}{3}$$

$$(6) 5\frac{5}{8} \quad (7) 8\frac{1}{10} \quad (8) 2\frac{5}{7}$$

〈풀이〉〈Solutions〉

$$(1) 8 - \frac{1}{3} = 7\frac{3}{3} - \frac{1}{3} = 7\frac{2}{3}$$

$$(2) 2 - \frac{1}{6} = 1\frac{6}{6} - \frac{1}{6} = 1\frac{5}{6}$$

$$(3) 5 - \frac{3}{7} = 4\frac{7}{7} - \frac{3}{7} = 4\frac{4}{7}$$

$$(4) 7 - \frac{1}{5} = 6\frac{5}{5} - \frac{1}{5} = 6\frac{4}{5}$$

$$(5) 1 - \frac{1}{3} = \frac{3}{3} - \frac{1}{3} = \frac{2}{3}$$

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

$$(7) 9 - \frac{9}{10} = 8\frac{10}{10} - \frac{9}{10} = 8\frac{1}{10}$$

$$(8) 3 - \frac{2}{7} = 2\frac{7}{7} - \frac{2}{7} = 2\frac{5}{7}$$

I3 - ②

$$\begin{array}{lllll} (9) 4 & (10) 10 & (11) 21 & (12) 7 & (13) 7 \\ (14) 4 & (15) 19 & (16) 5 & (17) 3 & (18) 8 \end{array}$$

〈풀이〉〈Solutions〉

$$(9) 5\frac{1}{3} = 4\frac{3+1}{3} = 4\frac{4}{3}$$

$$(10) 1\frac{3}{7} = \frac{7+3}{7} = \frac{10}{7}$$

$$(11) 1\frac{5}{16} = \frac{16+5}{16} = \frac{21}{16}$$

$$(12) 1\frac{1}{6} = \frac{6+1}{6} = \frac{7}{6}$$

$$(13) 2\frac{1}{6} = 1\frac{6+1}{6} = 1\frac{7}{6}$$

$$(14) 1\frac{1}{3} = \frac{3+1}{3} = \frac{4}{3}$$

$$(15) 1\frac{9}{10} = \frac{10+9}{10} = \frac{19}{10}$$

$$(16) 6\frac{2}{3} = 5\frac{3+2}{3} = 5\frac{5}{3}$$

$$(17) 2\frac{1}{2} = 1\frac{2+1}{2} = 1\frac{3}{2}$$

$$(18) 3\frac{3}{5} = 2\frac{5+3}{5} = 2\frac{8}{5}$$

I3 - ③

$$(19) 3\frac{1}{4} \quad (20) 2\frac{1}{2} \quad (21) 6\frac{5}{9} \quad (22) 2 \quad (23) 1\frac{2}{7}$$

$$(24) 1\frac{1}{2} \quad (25) 4\frac{1}{7}$$

〈풀이〉〈Solutions〉

$$(19) 13\frac{1}{4} - 10 = 3\frac{1}{4}$$

$$(20) 4\frac{1}{4} - 1\frac{3}{4} = 3\frac{5}{4} - 1\frac{3}{4} = 2\frac{2}{4} = 2\frac{1}{2}$$

$$(21) 7\frac{4}{9} - \frac{8}{9} = 6\frac{13}{9} - \frac{8}{9} = 6\frac{5}{9}$$

$$(22) 5\frac{1}{8} - 3\frac{1}{8} = 2$$

$$(23) 2\frac{1}{7} - \frac{6}{7} = 1\frac{8}{7} - \frac{6}{7} = 1\frac{2}{7}$$

$$(24) 4\frac{1}{4} - 2\frac{3}{4} = 3\frac{5}{4} - 2\frac{3}{4} = 1\frac{2}{4} = 1\frac{1}{2}$$

$$(25) 5 - \frac{6}{7} = 4\frac{7}{7} - \frac{6}{7} = 4\frac{1}{7}$$

I3 - ④

$$(26) \frac{1}{12} \quad (27) \frac{4}{21} \quad (28) \frac{11}{15} \quad (29) \frac{7}{15} \quad (30) \frac{3}{10}$$

$$(31) \frac{1}{90} \quad (32) 1\frac{1}{6}$$

〈풀이〉 (Solutions)

$$(26) \frac{1}{4} - \frac{1}{6} = \frac{3}{12} - \frac{2}{12} = \frac{1}{12}$$

$$(27) \frac{1}{3} - \frac{1}{7} = \frac{7}{21} - \frac{3}{21} = \frac{4}{21}$$

$$(28) \frac{5}{6} - \frac{1}{10} = \frac{25}{30} - \frac{3}{30} = \frac{22}{30} = \frac{11}{15}$$

$$(29) \frac{2}{3} - \frac{1}{5} = \frac{10}{15} - \frac{3}{15} = \frac{7}{15}$$

$$(30) \frac{2}{5} - \frac{1}{10} = \frac{4}{10} - \frac{1}{10} = \frac{3}{10}$$

$$(31) \frac{1}{9} - \frac{1}{10} = \frac{10}{90} - \frac{9}{90} = \frac{1}{90}$$

$$(32) 5 - 3\frac{5}{6} = 4\frac{6}{6} - 3\frac{5}{6} = 1\frac{1}{6}$$

I3 - ⑤

$$(33) 3\frac{2}{9} \quad (34) 3\frac{3}{4} \quad (35) \frac{11}{60} \quad (36) \frac{1}{6} \quad (37) 1\frac{3}{20}$$

$$(38) \frac{3}{20} \quad (39) 2\frac{11}{14}$$

〈풀이〉 (Solutions)

$$(33) 3\frac{5}{6} - \frac{11}{18} = 3\frac{15}{18} - \frac{11}{18} = 3\frac{4}{18} = 3\frac{2}{9}$$

$$(34) 5\frac{1}{3} - 1\frac{7}{12} = 5\frac{4}{12} - 1\frac{7}{12} = 4\frac{16}{12} - 1\frac{7}{12} = 3\frac{9}{12} = 3\frac{3}{4}$$

$$(35) \frac{7}{12} - \frac{2}{5} = \frac{35}{60} - \frac{24}{60} = \frac{11}{60}$$

$$(36) \frac{3}{8} - \frac{5}{24} = \frac{9}{24} - \frac{5}{24} = \frac{4}{24} = \frac{1}{6}$$

$$(37) 2\frac{3}{4} - 1\frac{3}{5} = 2\frac{15}{20} - 1\frac{12}{20} = 1\frac{3}{20}$$

$$(38) 4\frac{1}{4} - 4\frac{1}{10} = 4\frac{5}{20} - 4\frac{2}{20} = \frac{3}{20}$$

$$(39) 3\frac{1}{7} - \frac{5}{14} = 3\frac{2}{14} - \frac{5}{14} = 2\frac{16}{14} - \frac{5}{14} = 2\frac{11}{14}$$

I3 - ⑥

$$(40) \frac{5}{6} \quad (41) 2\frac{1}{20} \quad (42) 6\frac{19}{24} \quad (43) 3\frac{1}{9} \quad (44) 1\frac{5}{9}$$

$$(45) \frac{3}{8} \quad (46) 2\frac{8}{9}$$

〈풀이〉 (Solutions)

$$(40) 5\frac{3}{4} - 4\frac{11}{12} = 5\frac{9}{12} - 4\frac{11}{12} = 4\frac{21}{12} - 4\frac{11}{12} = \frac{10}{12} = \frac{5}{6}$$

$$(41) 2\frac{3}{4} - \frac{7}{10} = 2\frac{15}{20} - \frac{14}{20} = 2\frac{1}{20}$$

$$(42) 7\frac{1}{6} - \frac{3}{8} = 7\frac{4}{24} - \frac{9}{24} = 6\frac{28}{24} - \frac{9}{24} = 6\frac{19}{24}$$

$$(43) 4\frac{5}{18} - 1\frac{1}{6} = 4\frac{5}{18} - 1\frac{3}{18} = 3\frac{2}{18} = 3\frac{1}{9}$$

$$(44) 4\frac{1}{3} - 2\frac{7}{9} = 4\frac{3}{9} - 2\frac{7}{9} = 3\frac{12}{9} - 2\frac{7}{9} = 1\frac{5}{9}$$

$$(45) \frac{1}{2} - \frac{1}{8} = \frac{4}{8} - \frac{1}{8} = \frac{3}{8}$$

$$(46) 5\frac{1}{3} - 2\frac{4}{9} = 5\frac{3}{9} - 2\frac{4}{9} = 4\frac{12}{9} - 2\frac{4}{9} = 2\frac{8}{9}$$

I3 - ⑦

$$(47) \frac{5}{12} \quad (48) \frac{8}{15} \quad (49) \frac{7}{12} \quad (50) 4\frac{1}{2} \quad (51) 1\frac{7}{24}$$

$$(52) \frac{1}{9} \quad (53) 1\frac{1}{6}$$

〈풀이〉 (Solutions)

$$(47) \frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

$$(48) \frac{1}{5} + \frac{1}{3} = \frac{3}{15} + \frac{5}{15} = \frac{8}{15}$$

$$(49) \frac{5}{6} - \frac{1}{4} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$$

$$(50) 3 + 1\frac{1}{2} = 4\frac{1}{2}$$

$$(51) \frac{5}{12} + \frac{7}{8} = \frac{10}{24} + \frac{21}{24} = \frac{31}{24} = 1\frac{7}{24}$$

$$(52) \frac{2}{3} - \frac{5}{9} = \frac{6}{9} - \frac{5}{9} = \frac{1}{9}$$

$$(53) \frac{1}{3} + \frac{5}{6} = \frac{2}{6} + \frac{5}{6} = \frac{7}{6} = 1\frac{1}{6}$$

I3 - ⑧

$$(54) \frac{1}{2} \quad (55) \frac{4}{15} \quad (56) 4\frac{1}{8} \quad (57) 2\frac{7}{8} \quad (58) 1\frac{7}{24}$$

$$(59) 2\frac{1}{2} \quad (60) 1\frac{11}{12}$$

〈풀이〉 (Solutions)

$$(54) \frac{4}{5} - \frac{3}{10} = \frac{8}{10} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$$

$$(55) \frac{1}{10} + \frac{1}{6} = \frac{3}{30} + \frac{5}{30} = \frac{8}{30} = \frac{4}{15}$$

$$(56) 6\frac{7}{8} - 2\frac{3}{4} = 6\frac{7}{8} - 2\frac{6}{8} = 4\frac{1}{8}$$

$$(57) 2\frac{1}{2} + \frac{3}{8} = 2\frac{4}{8} + \frac{3}{8} = 2\frac{7}{8}$$

$$(58) 2\frac{1}{6} - \frac{7}{8} = 2\frac{4}{24} - \frac{21}{24} = 1\frac{28}{24} - \frac{21}{24} = 1\frac{7}{24}$$

$$(59) \frac{2}{3} + 1\frac{5}{6} = \frac{4}{6} + 1\frac{5}{6} = 1\frac{9}{6} = 1\frac{3}{2} = 2\frac{1}{2}$$

$$(60) 3\frac{2}{3} - 1\frac{3}{4} = 3\frac{8}{12} - 1\frac{9}{12} = 2\frac{20}{12} - 1\frac{9}{12}$$

$$= 1\frac{11}{12}$$