

Question 1 [25 marks]

0: $\frac{3}{5} + \frac{2}{4} = 1\frac{1}{10}$

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

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

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

4: $\frac{1}{5} + \frac{2}{1} = 2\frac{1}{5}$

5: $\frac{5}{5} + \frac{5}{5} = 2$

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

7: $\frac{2}{3} + \frac{1}{4} = \frac{11}{12}$

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

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

10: $\frac{3}{4} + \frac{4}{4} = 1\frac{3}{4}$

11: $\frac{3}{3} + \frac{2}{3} = 1\frac{2}{3}$

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

13: $\frac{3}{2} + \frac{3}{3} = 2\frac{1}{2}$

14: $\frac{4}{1} + \frac{5}{3} = 5\frac{2}{3}$

15: $\frac{4}{3} + \frac{3}{1} = 4\frac{1}{3}$

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

17: $\frac{5}{2} + \frac{4}{1} = 6\frac{1}{2}$

18: $\frac{3}{1} + \frac{3}{1} = 6$

19: $\frac{4}{5} + \frac{3}{1} = 3\frac{4}{5}$

20: $\frac{4}{1} + \frac{1}{2} = 4\frac{1}{2}$

21: $\frac{4}{1} + \frac{2}{4} = 4\frac{1}{2}$

22: $\frac{3}{4} + \frac{5}{5} = 1\frac{3}{4}$

23: $\frac{5}{2} + \frac{5}{5} = 3\frac{1}{2}$

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

25: $\frac{5}{4} + \frac{5}{4} = 2\frac{1}{2}$

*fracadd_1to5_1to5_1to5_1to5***Question 2** [25 marks]

0: $\frac{5}{5} + \frac{3}{5} = 1\frac{3}{5}$

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

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

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

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

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

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

7: $\frac{4}{4} + \frac{2}{2} = 2$

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

9: $\frac{1}{3} + \frac{1}{1} = 1\frac{1}{3}$

10: $\frac{5}{1} + \frac{2}{2} = 6$

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

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

13: $\frac{2}{1} + \frac{1}{2} = 2\frac{1}{2}$

14: $\frac{2}{4} + \frac{4}{4} = 1\frac{1}{2}$

15: $\frac{2}{1} + \frac{2}{5} = 2\frac{2}{5}$

16: $\frac{3}{3} + \frac{4}{2} = 3$

17: $\frac{3}{3} + \frac{2}{2} = 2$

18: $\frac{5}{2} + \frac{5}{5} = 3\frac{1}{2}$

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

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

21: $\frac{2}{1} + \frac{1}{2} = 2\frac{1}{2}$

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

23: $\frac{5}{4} + \frac{2}{2} = 2\frac{1}{4}$

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

25: $\frac{5}{1} + \frac{3}{5} = 5\frac{3}{5}$

fracadd_1to5_1to5_1to5_1to5

Question 3 [25 marks]

0: $\frac{5}{4} + \frac{5}{5} = 2\frac{1}{4}$

1: $\frac{4}{5} + \frac{2}{3} = 1\frac{7}{15}$

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

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

4: $\frac{5}{5} + \frac{5}{3} = 2\frac{2}{3}$

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

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

7: $\frac{3}{4} + \frac{5}{4} = 2$

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

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

10: $\frac{5}{1} + \frac{3}{3} = 6$

11: $\frac{2}{4} + \frac{1}{2} = 1$

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

13: $\frac{5}{4} + \frac{5}{1} = 6\frac{1}{4}$

14: $\frac{5}{4} + \frac{3}{2} = 2\frac{3}{4}$

15: $\frac{1}{2} + \frac{3}{1} = 3\frac{1}{2}$

16: $\frac{3}{2} + \frac{2}{3} = 2\frac{1}{6}$

17: $\frac{5}{5} + \frac{3}{5} = 1\frac{3}{5}$

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

19: $\frac{1}{3} + \frac{4}{5} = 1\frac{2}{15}$

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

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

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

23: $\frac{5}{5} + \frac{2}{4} = 1\frac{1}{2}$

24: $\frac{3}{2} + \frac{2}{4} = 2$

25: $\frac{4}{3} + \frac{2}{5} = 1\frac{11}{15}$

*fracadd_1to5_1to5_1to5_1to5***Question 4** [25 marks]

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

1: $\frac{1}{5} + \frac{5}{2} = 2\frac{7}{10}$

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

3: $\frac{2}{5} + \frac{4}{2} = 2\frac{2}{5}$

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

5: $\frac{1}{5} + \frac{5}{2} = 2\frac{7}{10}$

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

7: $\frac{4}{3} + \frac{3}{5} = 1\frac{14}{15}$

8: $\frac{5}{1} + \frac{5}{5} = 6$

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

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

11: $\frac{4}{5} + \frac{3}{1} = 3\frac{4}{5}$

12: $\frac{2}{1} + \frac{3}{5} = 2\frac{3}{5}$

13: $\frac{3}{4} + \frac{5}{4} = 2$

14: $\frac{3}{2} + \frac{3}{5} = 2\frac{1}{10}$

15: $\frac{1}{2} + \frac{2}{1} = 2\frac{1}{2}$

16: $\frac{4}{5} + \frac{1}{5} = 1$

17: $\frac{4}{4} + \frac{1}{4} = 1\frac{1}{4}$

18: $\frac{2}{5} + \frac{3}{5} = 1$

19: $\frac{4}{2} + \frac{2}{1} = 4$

20: $\frac{1}{3} + \frac{4}{4} = 1\frac{1}{3}$

21: $\frac{3}{3} + \frac{3}{3} = 2$

22: $\frac{4}{2} + \frac{4}{1} = 6$

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

24: $\frac{1}{4} + \frac{1}{5} = \frac{9}{20}$

25: $\frac{3}{1} + \frac{5}{3} = 4\frac{2}{3}$

fracadd_1to5_1to5_1to5_1to5

Question 5 [25 marks]

0: $\frac{5}{3} + \frac{2}{3} = 2\frac{1}{3}$

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

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

3: $\frac{5}{1} + \frac{1}{3} = 5\frac{1}{3}$

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

5: $\frac{1}{2} + \frac{2}{2} = 1\frac{1}{2}$

6: $\frac{1}{3} + \frac{3}{1} = 3\frac{1}{3}$

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

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

9: $\frac{1}{3} + \frac{5}{5} = 1\frac{1}{3}$

10: $\frac{5}{3} + \frac{2}{2} = 2\frac{2}{3}$

11: $\frac{5}{1} + \frac{3}{5} = 5\frac{3}{5}$

12: $\frac{3}{4} + \frac{1}{4} = 1$

13: $\frac{4}{1} + \frac{5}{4} = 5\frac{1}{4}$

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

15: $\frac{3}{1} + \frac{1}{1} = 4$

16: $\frac{2}{1} + \frac{5}{3} = 3\frac{2}{3}$

17: $\frac{5}{2} + \frac{2}{1} = 4\frac{1}{2}$

18: $\frac{5}{4} + \frac{2}{4} = 1\frac{3}{4}$

19: $\frac{3}{3} + \frac{5}{2} = 3\frac{1}{2}$

20: $\frac{3}{2} + \frac{5}{4} = 2\frac{3}{4}$

21: $\frac{3}{1} + \frac{3}{4} = 3\frac{3}{4}$

22: $\frac{2}{1} + \frac{1}{2} = 2\frac{1}{2}$

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

24: $\frac{4}{4} + \frac{4}{5} = 1\frac{4}{5}$

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

fracadd_1to5_1to5_1to5_1to5

Question 6 [25 marks]

0: $\frac{1}{1} + \frac{3}{2} = 2\frac{1}{2}$

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

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

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

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

5: $\frac{1}{4} + \frac{3}{4} = 1$

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

7: $\frac{5}{1} + \frac{4}{5} = 5\frac{4}{5}$

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

9: $\frac{1}{2} + \frac{2}{1} = 2\frac{1}{2}$

10: $\frac{5}{4} + \frac{2}{1} = 3\frac{1}{4}$

11: $\frac{5}{4} + \frac{2}{2} = 2\frac{1}{4}$

12: $\frac{1}{3} + \frac{3}{4} = 1\frac{1}{12}$

13: $\frac{4}{4} + \frac{4}{2} = 3$

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

15: $\frac{4}{5} + \frac{2}{5} = 1\frac{1}{5}$

16: $\frac{5}{4} + \frac{3}{4} = 2$

17: $\frac{2}{4} + \frac{3}{2} = 2$

18: $\frac{2}{3} + \frac{2}{4} = 1\frac{1}{6}$

19: $\frac{2}{2} + \frac{2}{3} = 1\frac{2}{3}$

20: $\frac{1}{5} + \frac{2}{4} = \frac{7}{10}$

21: $\frac{3}{5} + \frac{1}{4} = \frac{17}{20}$

22: $\frac{1}{3} + \frac{4}{1} = 4\frac{1}{3}$

23: $\frac{5}{2} + \frac{4}{1} = 6\frac{1}{2}$

24: $\frac{5}{1} + \frac{3}{5} = 5\frac{3}{5}$

25: $\frac{3}{2} + \frac{3}{5} = 2\frac{1}{10}$

fracadd_1to5_1to5_1to5_1to5

Question 7 [25 marks]

0: $\frac{3}{1} + \frac{1}{1} = 4$

1: $\frac{2}{1} + \frac{2}{5} = 2\frac{2}{5}$

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

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

4: $\frac{5}{4} + \frac{1}{5} = 1\frac{9}{20}$

5: $\frac{3}{1} + \frac{4}{4} = 4$

6: $\frac{4}{4} + \frac{3}{1} = 4$

7: $\frac{2}{5} + \frac{4}{2} = 2\frac{2}{5}$

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

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

10: $\frac{3}{5} + \frac{2}{5} = 1$

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

12: $\frac{1}{5} + \frac{5}{3} = 1\frac{13}{15}$

13: $\frac{3}{1} + \frac{5}{3} = 4\frac{2}{3}$

14: $\frac{3}{1} + \frac{4}{4} = 4$

15: $\frac{3}{4} + \frac{1}{3} = 1\frac{1}{12}$

16: $\frac{5}{3} + \frac{2}{2} = 2\frac{2}{3}$

17: $\frac{1}{3} + \frac{2}{1} = 2\frac{1}{3}$

18: $\frac{5}{3} + \frac{3}{3} = 2\frac{2}{3}$

19: $\frac{5}{1} + \frac{3}{3} = 6$

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

21: $\frac{2}{1} + \frac{3}{2} = 3\frac{1}{2}$

22: $\frac{4}{2} + \frac{4}{5} = 2\frac{4}{5}$

23: $\frac{2}{2} + \frac{4}{1} = 5$

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

25: $\frac{2}{3} + \frac{3}{1} = 3\frac{2}{3}$

*fracadd_1to5_1to5_1to5_1to5***Question 8** [25 marks]

0: $\frac{5}{5} + \frac{4}{2} = 3$

1: $\frac{2}{4} + \frac{5}{1} = 5\frac{1}{2}$

2: $\frac{5}{4} + \frac{5}{2} = 3\frac{3}{4}$

3: $\frac{1}{4} + \frac{5}{1} = 5\frac{1}{4}$

4: $\frac{4}{4} + \frac{2}{2} = 2$

5: $\frac{2}{2} + \frac{2}{2} = 2$

6: $\frac{5}{5} + \frac{1}{5} = 1\frac{1}{5}$

7: $\frac{3}{4} + \frac{2}{5} = 1\frac{3}{20}$

8: $\frac{3}{4} + \frac{4}{1} = 4\frac{3}{4}$

9: $\frac{1}{5} + \frac{5}{1} = 5\frac{1}{5}$

10: $\frac{3}{4} + \frac{1}{3} = 1\frac{1}{12}$

11: $\frac{1}{2} + \frac{5}{1} = 5\frac{1}{2}$

12: $\frac{4}{2} + \frac{2}{3} = 2\frac{2}{3}$

13: $\frac{5}{3} + \frac{5}{5} = 2\frac{2}{3}$

14: $\frac{1}{2} + \frac{1}{5} = \frac{7}{10}$

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

16: $\frac{2}{4} + \frac{4}{5} = 1\frac{3}{10}$

17: $\frac{4}{3} + \frac{3}{1} = 4\frac{1}{3}$

18: $\frac{1}{2} + \frac{3}{5} = 1\frac{1}{10}$

19: $\frac{5}{4} + \frac{4}{3} = 2\frac{7}{12}$

20: $\frac{5}{2} + \frac{1}{4} = 2\frac{3}{4}$

21: $\frac{4}{3} + \frac{4}{3} = 2\frac{2}{3}$

22: $\frac{2}{2} + \frac{1}{1} = 2$

23: $\frac{5}{4} + \frac{2}{3} = 1\frac{11}{12}$

24: $\frac{5}{1} + \frac{2}{4} = 5\frac{1}{2}$

25: $\frac{2}{2} + \frac{3}{3} = 2$

fracadd_1to5_1to5_1to5_1to5

Question 9 [25 marks]

0: $\frac{3}{8} + \frac{4}{9} = \frac{59}{72}$

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

2: $\frac{4}{7} + \frac{3}{11} = \frac{65}{77}$

3: $\frac{5}{12} + \frac{2}{7} = \frac{59}{84}$

4: $\frac{3}{10} + \frac{2}{7} = \frac{41}{70}$

5: $\frac{4}{9} + \frac{2}{6} = \frac{7}{9}$

6: $\frac{2}{8} + \frac{5}{7} = \frac{27}{28}$

7: $\frac{4}{9} + \frac{3}{6} = \frac{17}{18}$

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

9: $\frac{5}{11} + \frac{2}{11} = \frac{7}{11}$

10: $\frac{5}{6} + \frac{1}{11} = \frac{61}{66}$

11: $\frac{3}{9} + \frac{1}{11} = \frac{14}{33}$

12: $\frac{5}{11} + \frac{4}{9} = \frac{89}{99}$

13: $\frac{1}{11} + \frac{4}{11} = \frac{5}{11}$

14: $\frac{3}{12} + \frac{3}{9} = \frac{7}{12}$

15: $\frac{5}{7} + \frac{4}{7} = 1\frac{2}{7}$

16: $\frac{4}{12} + \frac{5}{6} = 1\frac{1}{6}$

17: $\frac{2}{9} + \frac{1}{9} = \frac{1}{3}$

18: $\frac{4}{11} + \frac{4}{7} = \frac{72}{77}$

19: $\frac{5}{10} + \frac{2}{11} = \frac{15}{22}$

20: $\frac{1}{9} + \frac{3}{7} = \frac{34}{63}$

21: $\frac{1}{11} + \frac{4}{10} = \frac{27}{55}$

22: $\frac{1}{6} + \frac{2}{7} = \frac{19}{42}$

23: $\frac{2}{12} + \frac{3}{11} = \frac{29}{66}$

24: $\frac{5}{6} + \frac{1}{6} = 1$

25: $\frac{5}{9} + \frac{1}{6} = \frac{13}{18}$

*fracadd_1to5_6to12_1to5_6to12***Question 10** [25 marks]

0: $\frac{2}{7} + \frac{1}{6} = \frac{19}{42}$

1: $\frac{2}{9} + \frac{2}{6} = \frac{5}{9}$

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

3: $\frac{1}{9} + \frac{4}{7} = \frac{43}{63}$

4: $\frac{3}{12} + \frac{1}{8} = \frac{3}{8}$

5: $\frac{1}{12} + \frac{5}{7} = \frac{67}{84}$

6: $\frac{4}{6} + \frac{3}{12} = \frac{11}{12}$

7: $\frac{3}{8} + \frac{1}{7} = \frac{29}{56}$

8: $\frac{1}{8} + \frac{1}{6} = \frac{7}{24}$

9: $\frac{1}{11} + \frac{2}{6} = \frac{14}{33}$

10: $\frac{4}{9} + \frac{1}{7} = \frac{37}{63}$

11: $\frac{3}{11} + \frac{2}{12} = \frac{29}{66}$

12: $\frac{4}{10} + \frac{5}{8} = 1\frac{1}{40}$

13: $\frac{3}{8} + \frac{3}{8} = \frac{3}{4}$

14: $\frac{5}{6} + \frac{2}{9} = 1\frac{1}{18}$

15: $\frac{5}{8} + \frac{1}{9} = \frac{53}{72}$

16: $\frac{1}{12} + \frac{2}{11} = \frac{35}{132}$

17: $\frac{5}{7} + \frac{1}{8} = \frac{47}{56}$

18: $\frac{3}{11} + \frac{3}{7} = \frac{54}{77}$

19: $\frac{2}{6} + \frac{4}{9} = \frac{7}{9}$

20: $\frac{5}{7} + \frac{4}{12} = 1\frac{1}{21}$

21: $\frac{5}{8} + \frac{4}{7} = 1\frac{11}{56}$

22: $\frac{4}{6} + \frac{1}{12} = \frac{3}{4}$

23: $\frac{1}{6} + \frac{5}{6} = 1$

24: $\frac{3}{7} + \frac{3}{9} = \frac{16}{21}$

25: $\frac{4}{8} + \frac{5}{7} = 1\frac{3}{14}$

fracadd_1to5_6to12_1to5_6to12

Question 11 [25 marks]

0: $\frac{4}{7} + \frac{4}{7} = 1\frac{1}{7}$

1: $\frac{5}{6} + \frac{3}{12} = 1\frac{1}{12}$

2: $\frac{3}{9} + \frac{3}{8} = \frac{17}{24}$

3: $\frac{3}{12} + \frac{3}{7} = \frac{19}{28}$

4: $\frac{1}{7} + \frac{4}{9} = \frac{37}{63}$

5: $\frac{4}{7} + \frac{5}{11} = 1\frac{2}{77}$

6: $\frac{3}{9} + \frac{5}{12} = \frac{3}{4}$

7: $\frac{3}{8} + \frac{3}{6} = \frac{7}{8}$

8: $\frac{2}{7} + \frac{1}{9} = \frac{25}{63}$

9: $\frac{4}{6} + \frac{3}{10} = \frac{29}{30}$

10: $\frac{2}{12} + \frac{3}{7} = \frac{25}{42}$

11: $\frac{1}{12} + \frac{5}{9} = \frac{23}{36}$

12: $\frac{3}{9} + \frac{3}{10} = \frac{19}{30}$

13: $\frac{5}{10} + \frac{5}{9} = 1\frac{1}{18}$

14: $\frac{5}{9} + \frac{2}{7} = \frac{53}{63}$

15: $\frac{3}{11} + \frac{4}{7} = \frac{65}{77}$

16: $\frac{2}{9} + \frac{2}{9} = \frac{4}{9}$

17: $\frac{4}{7} + \frac{1}{9} = \frac{43}{63}$

18: $\frac{1}{10} + \frac{1}{7} = \frac{17}{70}$

19: $\frac{4}{7} + \frac{4}{6} = 1\frac{5}{21}$

20: $\frac{5}{12} + \frac{5}{10} = \frac{11}{12}$

21: $\frac{3}{10} + \frac{2}{12} = \frac{7}{15}$

22: $\frac{3}{9} + \frac{5}{8} = \frac{23}{24}$

23: $\frac{4}{8} + \frac{2}{8} = \frac{3}{4}$

24: $\frac{2}{7} + \frac{1}{7} = \frac{3}{7}$

25: $\frac{1}{12} + \frac{2}{11} = \frac{35}{132}$

*fracadd_1to5_6to12_1to5_6to12***Question 12** [25 marks]

0: $\frac{2}{7} + \frac{3}{11} = \frac{43}{77}$

1: $\frac{3}{6} + \frac{3}{7} = \frac{13}{14}$

2: $\frac{5}{8} + \frac{4}{7} = 1\frac{11}{56}$

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

4: $\frac{4}{11} + \frac{5}{6} = 1\frac{13}{66}$

5: $\frac{2}{7} + \frac{2}{11} = \frac{36}{77}$

6: $\frac{5}{6} + \frac{3}{8} = 1\frac{5}{24}$

7: $\frac{5}{6} + \frac{5}{11} = 1\frac{19}{66}$

8: $\frac{4}{10} + \frac{5}{12} = \frac{49}{60}$

9: $\frac{5}{10} + \frac{2}{10} = \frac{7}{10}$

10: $\frac{4}{12} + \frac{1}{6} = \frac{1}{2}$

11: $\frac{1}{8} + \frac{4}{12} = \frac{11}{24}$

12: $\frac{3}{10} + \frac{1}{7} = \frac{31}{70}$

13: $\frac{5}{8} + \frac{2}{6} = \frac{23}{24}$

14: $\frac{4}{8} + \frac{3}{10} = \frac{4}{5}$

15: $\frac{5}{11} + \frac{4}{12} = \frac{26}{33}$

16: $\frac{3}{10} + \frac{3}{8} = \frac{27}{40}$

17: $\frac{2}{9} + \frac{4}{10} = \frac{28}{45}$

18: $\frac{3}{6} + \frac{2}{10} = \frac{7}{10}$

19: $\frac{3}{8} + \frac{1}{11} = \frac{41}{88}$

20: $\frac{1}{11} + \frac{3}{8} = \frac{41}{88}$

21: $\frac{4}{8} + \frac{3}{7} = \frac{13}{14}$

22: $\frac{1}{7} + \frac{3}{9} = \frac{10}{21}$

23: $\frac{1}{12} + \frac{2}{7} = \frac{31}{84}$

24: $\frac{2}{8} + \frac{1}{9} = \frac{13}{36}$

25: $\frac{5}{12} + \frac{5}{11} = \frac{115}{132}$

fracadd_1to5_6to12_1to5_6to12

Question 13 [25 marks]

0: $\frac{5}{9} + \frac{4}{7} = 1\frac{8}{63}$

1: $\frac{1}{10} + \frac{3}{9} = \frac{13}{30}$

2: $\frac{1}{10} + \frac{1}{8} = \frac{9}{40}$

3: $\frac{3}{10} + \frac{5}{10} = \frac{4}{5}$

4: $\frac{3}{7} + \frac{3}{10} = \frac{51}{70}$

5: $\frac{5}{9} + \frac{2}{7} = \frac{53}{63}$

6: $\frac{2}{12} + \frac{3}{7} = \frac{25}{42}$

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

8: $\frac{2}{6} + \frac{5}{7} = 1\frac{1}{21}$

9: $\frac{1}{7} + \frac{3}{12} = \frac{11}{28}$

10: $\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$

11: $\frac{2}{10} + \frac{2}{11} = \frac{21}{55}$

12: $\frac{2}{9} + \frac{2}{12} = \frac{7}{18}$

13: $\frac{3}{10} + \frac{5}{8} = \frac{37}{40}$

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

15: $\frac{3}{6} + \frac{3}{7} = \frac{13}{14}$

16: $\frac{3}{8} + \frac{5}{8} = 1$

17: $\frac{3}{9} + \frac{3}{7} = \frac{16}{21}$

18: $\frac{5}{9} + \frac{1}{12} = \frac{23}{36}$

19: $\frac{2}{10} + \frac{2}{9} = \frac{19}{45}$

20: $\frac{4}{9} + \frac{5}{11} = \frac{89}{99}$

21: $\frac{5}{8} + \frac{4}{7} = 1\frac{11}{56}$

22: $\frac{4}{12} + \frac{5}{11} = \frac{26}{33}$

23: $\frac{1}{8} + \frac{5}{6} = \frac{23}{24}$

24: $\frac{3}{6} + \frac{4}{10} = \frac{9}{10}$

25: $\frac{2}{10} + \frac{5}{8} = \frac{33}{40}$

fracadd_1to5_6to12_1to5_6to12

Question 14 [25 marks]

0: $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$

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

2: $\frac{2}{10} + \frac{2}{10} = \frac{2}{5}$

3: $\frac{2}{7} + \frac{1}{7} = \frac{3}{7}$

4: $\frac{5}{9} + \frac{4}{10} = \frac{43}{45}$

5: $\frac{1}{7} + \frac{5}{10} = \frac{9}{14}$

6: $\frac{2}{7} + \frac{2}{9} = \frac{32}{63}$

7: $\frac{3}{11} + \frac{5}{9} = \frac{82}{99}$

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

9: $\frac{1}{11} + \frac{2}{6} = \frac{14}{33}$

10: $\frac{1}{6} + \frac{2}{6} = \frac{1}{2}$

11: $\frac{5}{11} + \frac{2}{12} = \frac{41}{66}$

12: $\frac{3}{7} + \frac{3}{11} = \frac{54}{77}$

13: $\frac{3}{7} + \frac{1}{10} = \frac{37}{70}$

14: $\frac{3}{10} + \frac{4}{8} = \frac{4}{5}$

15: $\frac{3}{9} + \frac{3}{10} = \frac{19}{30}$

16: $\frac{2}{6} + \frac{2}{9} = \frac{5}{9}$

17: $\frac{5}{10} + \frac{4}{10} = \frac{9}{10}$

18: $\frac{3}{6} + \frac{2}{7} = \frac{11}{14}$

19: $\frac{3}{6} + \frac{1}{6} = \frac{2}{3}$

20: $\frac{1}{8} + \frac{2}{10} = \frac{13}{40}$

21: $\frac{1}{10} + \frac{4}{10} = \frac{1}{2}$

22: $\frac{1}{6} + \frac{5}{10} = \frac{2}{3}$

23: $\frac{2}{7} + \frac{1}{7} = \frac{3}{7}$

24: $\frac{3}{6} + \frac{5}{8} = 1\frac{1}{8}$

25: $\frac{1}{10} + \frac{4}{12} = \frac{13}{30}$

fracadd_1to5_6to12_1to5_6to12

Question 15 [25 marks]

0: $\frac{1}{8} + \frac{1}{9} = \frac{17}{72}$

1: $\frac{1}{11} + \frac{1}{7} = \frac{18}{77}$

2: $\frac{2}{7} + \frac{1}{12} = \frac{31}{84}$

3: $\frac{5}{6} + \frac{1}{7} = \frac{41}{42}$

4: $\frac{3}{12} + \frac{3}{7} = \frac{19}{28}$

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

6: $\frac{3}{10} + \frac{5}{8} = \frac{37}{40}$

7: $\frac{1}{10} + \frac{3}{11} = \frac{41}{110}$

8: $\frac{1}{12} + \frac{2}{6} = \frac{5}{12}$

9: $\frac{3}{12} + \frac{3}{12} = \frac{1}{2}$

10: $\frac{5}{10} + \frac{4}{8} = 1$

11: $\frac{2}{6} + \frac{4}{9} = \frac{7}{9}$

12: $\frac{1}{6} + \frac{1}{10} = \frac{4}{15}$

13: $\frac{1}{10} + \frac{3}{9} = \frac{13}{30}$

14: $\frac{1}{11} + \frac{2}{9} = \frac{31}{99}$

15: $\frac{4}{10} + \frac{2}{8} = \frac{13}{20}$

16: $\frac{1}{6} + \frac{3}{9} = \frac{1}{2}$

17: $\frac{1}{7} + \frac{4}{6} = \frac{17}{21}$

18: $\frac{3}{6} + \frac{4}{12} = \frac{5}{6}$

19: $\frac{2}{12} + \frac{5}{6} = 1$

20: $\frac{4}{9} + \frac{1}{12} = \frac{19}{36}$

21: $\frac{1}{6} + \frac{5}{10} = \frac{2}{3}$

22: $\frac{2}{7} + \frac{2}{6} = \frac{13}{21}$

23: $\frac{5}{7} + \frac{3}{8} = 1\frac{5}{56}$

24: $\frac{5}{7} + \frac{2}{6} = 1\frac{1}{21}$

25: $\frac{1}{8} + \frac{2}{9} = \frac{25}{72}$

Question 16 [25 marks]

0: $\frac{4}{10} + \frac{3}{9} = \frac{11}{15}$

1: $\frac{1}{11} + \frac{5}{9} = \frac{64}{99}$

2: $\frac{1}{7} + \frac{2}{7} = \frac{3}{7}$

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

4: $\frac{5}{9} + \frac{5}{11} = 1\frac{1}{99}$

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

6: $\frac{5}{11} + \frac{5}{7} = 1\frac{13}{77}$

7: $\frac{3}{7} + \frac{5}{7} = 1\frac{1}{7}$

8: $\frac{3}{12} + \frac{4}{8} = \frac{3}{4}$

9: $\frac{4}{6} + \frac{1}{10} = \frac{23}{30}$

10: $\frac{4}{12} + \frac{2}{7} = \frac{13}{21}$

11: $\frac{5}{8} + \frac{1}{6} = \frac{19}{24}$

12: $\frac{1}{7} + \frac{1}{8} = \frac{15}{56}$

13: $\frac{1}{11} + \frac{1}{6} = \frac{17}{66}$

14: $\frac{4}{11} + \frac{3}{12} = \frac{27}{44}$

15: $\frac{4}{11} + \frac{3}{12} = \frac{27}{44}$

16: $\frac{2}{10} + \frac{2}{11} = \frac{21}{55}$

17: $\frac{1}{12} + \frac{4}{12} = \frac{5}{12}$

18: $\frac{1}{10} + \frac{4}{6} = \frac{23}{30}$

19: $\frac{4}{8} + \frac{1}{7} = \frac{9}{14}$

20: $\frac{2}{12} + \frac{3}{8} = \frac{13}{24}$

21: $\frac{3}{9} + \frac{2}{9} = \frac{5}{9}$

22: $\frac{1}{11} + \frac{3}{12} = \frac{15}{44}$

23: $\frac{3}{7} + \frac{3}{10} = \frac{51}{70}$

24: $\frac{3}{10} + \frac{1}{11} = \frac{43}{110}$

25: $\frac{4}{12} + \frac{1}{7} = \frac{10}{21}$

fracadd_1to5_6to12_1to5_6to12

fracadd_1to5_6to12_1to5_6to12

Question 17 [25 marks]

0: $\frac{3}{9} + \frac{9}{7} = 1\frac{13}{21}$

1: $\frac{4}{5} + \frac{4}{7} = 1\frac{13}{35}$

2: $\frac{3}{4} + \frac{6}{2} = 3\frac{3}{4}$

3: $\frac{6}{9} + \frac{6}{3} = 2\frac{2}{3}$

4: $\frac{1}{5} + \frac{7}{3} = 2\frac{8}{15}$

5: $\frac{8}{5} + \frac{8}{3} = 4\frac{4}{15}$

6: $\frac{3}{2} + \frac{8}{7} = 2\frac{9}{14}$

7: $\frac{7}{3} + \frac{6}{5} = 3\frac{8}{15}$

8: $\frac{6}{3} + \frac{1}{6} = 2\frac{1}{6}$

9: $\frac{2}{5} + \frac{3}{4} = 1\frac{3}{20}$

10: $\frac{8}{7} + \frac{2}{2} = 2\frac{1}{7}$

11: $\frac{6}{7} + \frac{3}{3} = 1\frac{6}{7}$

12: $\frac{6}{9} + \frac{10}{3} = 4$

13: $\frac{9}{8} + \frac{9}{9} = 2\frac{1}{8}$

14: $\frac{1}{7} + \frac{4}{8} = \frac{9}{14}$

15: $\frac{8}{5} + \frac{6}{8} = 2\frac{7}{20}$

16: $\frac{9}{1} + \frac{5}{2} = 11\frac{1}{2}$

17: $\frac{6}{2} + \frac{6}{6} = 4$

18: $\frac{4}{2} + \frac{4}{10} = 2\frac{2}{5}$

19: $\frac{7}{3} + \frac{8}{4} = 4\frac{1}{3}$

20: $\frac{5}{3} + \frac{9}{2} = 6\frac{1}{6}$

21: $\frac{7}{3} + \frac{4}{6} = 3$

22: $\frac{7}{1} + \frac{2}{3} = 7\frac{2}{3}$

23: $\frac{4}{2} + \frac{6}{3} = 4$

24: $\frac{9}{2} + \frac{5}{6} = 5\frac{1}{3}$

25: $\frac{10}{3} + \frac{3}{3} = 4\frac{1}{3}$

*fracadd_1to10_1to10_1to10_1to10***Question 18** [25 marks]

0: $\frac{7}{10} + \frac{7}{10} = 1\frac{2}{5}$

1: $\frac{4}{10} + \frac{8}{6} = 1\frac{11}{15}$

2: $\frac{5}{7} + \frac{9}{3} = 3\frac{5}{7}$

3: $\frac{10}{8} + \frac{2}{5} = 1\frac{13}{20}$

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

5: $\frac{5}{1} + \frac{9}{8} = 6\frac{1}{8}$

6: $\frac{5}{7} + \frac{8}{8} = 1\frac{5}{7}$

7: $\frac{3}{2} + \frac{6}{5} = 2\frac{7}{10}$

8: $\frac{4}{9} + \frac{1}{3} = \frac{7}{9}$

9: $\frac{1}{2} + \frac{5}{10} = 1$

10: $\frac{8}{1} + \frac{7}{6} = 9\frac{1}{6}$

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

12: $\frac{2}{3} + \frac{4}{8} = 1\frac{1}{6}$

13: $\frac{7}{6} + \frac{4}{5} = 1\frac{29}{30}$

14: $\frac{7}{6} + \frac{8}{7} = 2\frac{13}{42}$

15: $\frac{3}{9} + \frac{10}{7} = 1\frac{16}{21}$

16: $\frac{5}{3} + \frac{3}{8} = 2\frac{1}{24}$

17: $\frac{2}{10} + \frac{6}{9} = \frac{13}{15}$

18: $\frac{2}{5} + \frac{6}{9} = 1\frac{1}{15}$

19: $\frac{2}{2} + \frac{7}{3} = 3\frac{1}{3}$

20: $\frac{10}{5} + \frac{5}{3} = 3\frac{2}{3}$

21: $\frac{10}{3} + \frac{4}{4} = 4\frac{1}{3}$

22: $\frac{6}{2} + \frac{6}{4} = 4\frac{1}{2}$

23: $\frac{8}{3} + \frac{9}{2} = 7\frac{1}{6}$

24: $\frac{9}{3} + \frac{7}{3} = 5\frac{1}{3}$

25: $\frac{7}{8} + \frac{2}{3} = 1\frac{13}{24}$

fracadd_1to10_1to10_1to10_1to10

Question 19 [25 marks]

0: $\frac{1}{3} + \frac{6}{1} = 6\frac{1}{3}$

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

2: $\frac{4}{1} + \frac{1}{7} = 4\frac{1}{7}$

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

4: $\frac{3}{5} + \frac{10}{5} = 2\frac{3}{5}$

5: $\frac{2}{5} + \frac{7}{8} = 1\frac{11}{40}$

6: $\frac{1}{1} + \frac{6}{8} = 1\frac{3}{4}$

7: $\frac{3}{3} + \frac{5}{7} = 1\frac{5}{7}$

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

9: $\frac{4}{10} + \frac{5}{5} = 1\frac{2}{5}$

10: $\frac{7}{9} + \frac{2}{1} = 2\frac{7}{9}$

11: $\frac{8}{2} + \frac{5}{5} = 5$

12: $\frac{7}{3} + \frac{9}{4} = 4\frac{7}{12}$

13: $\frac{3}{6} + \frac{10}{4} = 3$

14: $\frac{10}{2} + \frac{4}{5} = 5\frac{4}{5}$

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

16: $\frac{10}{3} + \frac{4}{2} = 5\frac{1}{3}$

17: $\frac{1}{1} + \frac{7}{5} = 2\frac{2}{5}$

18: $\frac{1}{1} + \frac{9}{3} = 4$

19: $\frac{9}{5} + \frac{9}{5} = 3\frac{3}{5}$

20: $\frac{8}{10} + \frac{5}{6} = 1\frac{19}{30}$

21: $\frac{9}{1} + \frac{3}{6} = 9\frac{1}{2}$

22: $\frac{9}{6} + \frac{9}{8} = 2\frac{5}{8}$

23: $\frac{8}{6} + \frac{7}{1} = 8\frac{1}{3}$

24: $\frac{5}{4} + \frac{1}{8} = 1\frac{3}{8}$

25: $\frac{1}{7} + \frac{10}{5} = 2\frac{1}{7}$

*fracadd_1to10_1to10_1to10_1to10***Question 20** [25 marks]

0: $\frac{4}{3} + \frac{3}{8} = 1\frac{17}{24}$

1: $\frac{8}{8} + \frac{6}{2} = 4$

2: $\frac{7}{5} + \frac{7}{2} = 4\frac{9}{10}$

3: $\frac{10}{10} + \frac{10}{5} = 3$

4: $\frac{6}{3} + \frac{7}{4} = 3\frac{3}{4}$

5: $\frac{5}{9} + \frac{9}{6} = 2\frac{1}{18}$

6: $\frac{2}{6} + \frac{10}{8} = 1\frac{7}{12}$

7: $\frac{3}{3} + \frac{10}{1} = 11$

8: $\frac{9}{5} + \frac{6}{1} = 7\frac{4}{5}$

9: $\frac{5}{8} + \frac{2}{10} = \frac{33}{40}$

10: $\frac{2}{7} + \frac{10}{3} = 3\frac{13}{21}$

11: $\frac{9}{6} + \frac{4}{10} = 1\frac{9}{10}$

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

13: $\frac{7}{1} + \frac{8}{4} = 9$

14: $\frac{9}{9} + \frac{5}{9} = 1\frac{5}{9}$

15: $\frac{6}{5} + \frac{7}{4} = 2\frac{19}{20}$

16: $\frac{5}{8} + \frac{1}{6} = \frac{19}{24}$

17: $\frac{6}{7} + \frac{6}{8} = 1\frac{17}{28}$

18: $\frac{7}{6} + \frac{2}{6} = 1\frac{1}{2}$

19: $\frac{10}{2} + \frac{3}{8} = 5\frac{3}{8}$

20: $\frac{9}{2} + \frac{1}{1} = 5\frac{1}{2}$

21: $\frac{1}{4} + \frac{6}{9} = \frac{11}{12}$

22: $\frac{2}{4} + \frac{2}{5} = \frac{9}{10}$

23: $\frac{8}{5} + \frac{6}{6} = 2\frac{3}{5}$

24: $\frac{1}{10} + \frac{10}{4} = 2\frac{3}{5}$

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

fracadd_1to10_1to10_1to10_1to10

Question 21 [25 marks]

0: $\frac{7}{7} + \frac{9}{6} = 2\frac{1}{2}$

1: $\frac{1}{2} + \frac{6}{7} = 1\frac{5}{14}$

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

3: $\frac{2}{1} + \frac{5}{10} = 2\frac{1}{2}$

4: $\frac{6}{4} + \frac{10}{1} = 11\frac{1}{2}$

5: $\frac{1}{9} + \frac{10}{1} = 10\frac{1}{9}$

6: $\frac{8}{2} + \frac{4}{9} = 4\frac{4}{9}$

7: $\frac{6}{1} + \frac{7}{9} = 6\frac{7}{9}$

8: $\frac{6}{2} + \frac{1}{6} = 3\frac{1}{6}$

9: $\frac{6}{10} + \frac{5}{3} = 2\frac{4}{15}$

10: $\frac{8}{7} + \frac{3}{5} = 1\frac{26}{35}$

11: $\frac{2}{2} + \frac{6}{5} = 2\frac{1}{5}$

12: $\frac{3}{3} + \frac{9}{7} = 2\frac{2}{7}$

13: $\frac{5}{10} + \frac{10}{10} = 1\frac{1}{2}$

14: $\frac{6}{7} + \frac{4}{2} = 2\frac{6}{7}$

15: $\frac{1}{5} + \frac{1}{6} = \frac{11}{30}$

16: $\frac{7}{9} + \frac{1}{10} = \frac{79}{90}$

17: $\frac{2}{8} + \frac{10}{1} = 10\frac{1}{4}$

18: $\frac{7}{2} + \frac{4}{10} = 3\frac{9}{10}$

19: $\frac{1}{9} + \frac{7}{8} = \frac{71}{72}$

20: $\frac{9}{10} + \frac{3}{9} = 1\frac{7}{30}$

21: $\frac{3}{2} + \frac{1}{9} = 1\frac{11}{18}$

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

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

24: $\frac{9}{9} + \frac{4}{6} = 1\frac{2}{3}$

25: $\frac{8}{6} + \frac{10}{7} = 2\frac{16}{21}$

*fracadd_1to10_1to10_1to10_1to10***Question 22** [25 marks]

0: $\frac{8}{7} + \frac{4}{10} = 1\frac{19}{35}$

1: $\frac{8}{3} + \frac{10}{1} = 12\frac{2}{3}$

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

3: $\frac{4}{10} + \frac{9}{8} = 1\frac{21}{40}$

4: $\frac{3}{3} + \frac{7}{3} = 3\frac{1}{3}$

5: $\frac{5}{8} + \frac{5}{5} = 1\frac{5}{8}$

6: $\frac{4}{10} + \frac{9}{10} = 1\frac{3}{10}$

7: $\frac{3}{4} + \frac{10}{3} = 4\frac{1}{12}$

8: $\frac{2}{7} + \frac{4}{5} = 1\frac{3}{35}$

9: $\frac{9}{6} + \frac{6}{10} = 2\frac{1}{10}$

10: $\frac{3}{9} + \frac{9}{9} = 1\frac{1}{3}$

11: $\frac{6}{8} + \frac{6}{6} = 1\frac{3}{4}$

12: $\frac{10}{10} + \frac{4}{5} = 1\frac{4}{5}$

13: $\frac{2}{10} + \frac{5}{6} = 1\frac{1}{30}$

14: $\frac{10}{4} + \frac{7}{5} = 3\frac{9}{10}$

15: $\frac{2}{9} + \frac{9}{10} = 1\frac{11}{90}$

16: $\frac{4}{2} + \frac{6}{8} = 2\frac{3}{4}$

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

18: $\frac{5}{7} + \frac{4}{4} = 1\frac{5}{7}$

19: $\frac{4}{7} + \frac{1}{6} = \frac{31}{42}$

20: $\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$

21: $\frac{2}{10} + \frac{4}{2} = 2\frac{1}{5}$

22: $\frac{2}{3} + \frac{7}{3} = 3$

23: $\frac{9}{2} + \frac{6}{6} = 5\frac{1}{2}$

24: $\frac{2}{2} + \frac{2}{7} = 1\frac{2}{7}$

25: $\frac{3}{7} + \frac{8}{10} = 1\frac{8}{35}$

fracadd_1to10_1to10_1to10_1to10

Question 23 [25 marks]

0: $\frac{6}{5} + \frac{10}{6} = 2\frac{13}{15}$

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

2: $\frac{1}{1} + \frac{6}{1} = 7$

3: $\frac{6}{3} + \frac{10}{4} = 4\frac{1}{2}$

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

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

6: $\frac{5}{3} + \frac{10}{2} = 6\frac{2}{3}$

7: $\frac{5}{8} + \frac{5}{3} = 2\frac{7}{24}$

8: $\frac{8}{9} + \frac{5}{5} = 1\frac{8}{9}$

9: $\frac{5}{4} + \frac{6}{9} = 1\frac{11}{12}$

10: $\frac{2}{8} + \frac{3}{9} = \frac{7}{12}$

11: $\frac{8}{8} + \frac{3}{5} = 1\frac{3}{5}$

12: $\frac{6}{4} + \frac{7}{4} = 3\frac{1}{4}$

13: $\frac{7}{8} + \frac{2}{10} = 1\frac{3}{40}$

14: $\frac{4}{2} + \frac{7}{2} = 5\frac{1}{2}$

15: $\frac{4}{4} + \frac{10}{10} = 2$

16: $\frac{10}{10} + \frac{10}{6} = 2\frac{2}{3}$

17: $\frac{4}{2} + \frac{7}{2} = 5\frac{1}{2}$

18: $\frac{3}{5} + \frac{6}{5} = 1\frac{4}{5}$

19: $\frac{10}{7} + \frac{8}{5} = 3\frac{1}{35}$

20: $\frac{2}{1} + \frac{4}{8} = 2\frac{1}{2}$

21: $\frac{8}{2} + \frac{7}{8} = 4\frac{7}{8}$

22: $\frac{6}{5} + \frac{6}{6} = 2\frac{1}{5}$

23: $\frac{6}{3} + \frac{3}{3} = 3$

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

25: $\frac{1}{6} + \frac{3}{7} = \frac{25}{42}$

*fracadd_1to10_1to10_1to10_1to10***Question 24** [25 marks]

0: $\frac{10}{1} + \frac{9}{2} = 14\frac{1}{2}$

1: $\frac{2}{9} + \frac{8}{9} = 1\frac{1}{9}$

2: $\frac{4}{7} + \frac{6}{5} = 1\frac{27}{35}$

3: $\frac{8}{5} + \frac{10}{9} = 2\frac{32}{45}$

4: $\frac{6}{2} + \frac{10}{10} = 4$

5: $\frac{4}{2} + \frac{7}{10} = 2\frac{7}{10}$

6: $\frac{6}{5} + \frac{5}{1} = 6\frac{1}{5}$

7: $\frac{5}{5} + \frac{7}{8} = 1\frac{7}{8}$

8: $\frac{9}{2} + \frac{8}{10} = 5\frac{3}{10}$

9: $\frac{10}{5} + \frac{9}{7} = 3\frac{2}{7}$

10: $\frac{10}{2} + \frac{8}{2} = 9$

11: $\frac{10}{4} + \frac{2}{10} = 2\frac{7}{10}$

12: $\frac{1}{8} + \frac{2}{1} = 2\frac{1}{8}$

13: $\frac{5}{7} + \frac{2}{2} = 1\frac{5}{7}$

14: $\frac{3}{3} + \frac{8}{7} = 2\frac{1}{7}$

15: $\frac{10}{9} + \frac{7}{6} = 2\frac{5}{18}$

16: $\frac{5}{9} + \frac{8}{1} = 8\frac{5}{9}$

17: $\frac{6}{10} + \frac{6}{7} = 1\frac{16}{35}$

18: $\frac{8}{4} + \frac{8}{9} = 2\frac{8}{9}$

19: $\frac{3}{7} + \frac{7}{1} = 7\frac{3}{7}$

20: $\frac{1}{6} + \frac{6}{4} = 1\frac{2}{3}$

21: $\frac{9}{2} + \frac{5}{5} = 5\frac{1}{2}$

22: $\frac{10}{2} + \frac{10}{8} = 6\frac{1}{4}$

23: $\frac{9}{1} + \frac{7}{4} = 10\frac{3}{4}$

24: $\frac{9}{1} + \frac{10}{3} = 12\frac{1}{3}$

25: $\frac{9}{6} + \frac{6}{10} = 2\frac{1}{10}$

fracadd_1to10_1to10_1to10_1to10

Question 25 [25 marks]

0: $\frac{12}{6} + \frac{5}{12} = 2\frac{5}{12}$

1: $\frac{2}{2} + \frac{6}{12} = 1\frac{1}{2}$

2: $\frac{6}{9} + \frac{6}{4} = 2\frac{1}{6}$

3: $\frac{8}{12} + \frac{6}{6} = 1\frac{2}{3}$

4: $\frac{5}{3} + \frac{9}{4} = 3\frac{11}{12}$

5: $\frac{9}{2} + \frac{11}{5} = 6\frac{7}{10}$

6: $\frac{3}{11} + \frac{1}{10} = \frac{41}{110}$

7: $\frac{9}{9} + \frac{7}{12} = 1\frac{7}{12}$

8: $\frac{4}{10} + \frac{9}{8} = 1\frac{21}{40}$

9: $\frac{5}{7} + \frac{6}{12} = 1\frac{3}{14}$

10: $\frac{10}{9} + \frac{6}{4} = 2\frac{11}{18}$

11: $\frac{7}{9} + \frac{10}{7} = 2\frac{13}{63}$

12: $\frac{10}{9} + \frac{12}{5} = 3\frac{23}{45}$

13: $\frac{11}{8} + \frac{12}{4} = 4\frac{3}{8}$

14: $\frac{12}{4} + \frac{4}{2} = 5$

15: $\frac{3}{7} + \frac{2}{3} = 1\frac{2}{21}$

16: $\frac{1}{5} + \frac{3}{3} = 1\frac{1}{5}$

17: $\frac{4}{8} + \frac{3}{6} = 1$

18: $\frac{5}{12} + \frac{12}{3} = 4\frac{5}{12}$

19: $\frac{10}{6} + \frac{8}{3} = 4\frac{1}{3}$

20: $\frac{2}{10} + \frac{7}{12} = \frac{47}{60}$

21: $\frac{3}{8} + \frac{6}{4} = 1\frac{7}{8}$

22: $\frac{10}{4} + \frac{10}{9} = 3\frac{11}{18}$

23: $\frac{6}{8} + \frac{12}{11} = 1\frac{37}{44}$

24: $\frac{5}{9} + \frac{10}{8} = 1\frac{29}{36}$

25: $\frac{9}{10} + \frac{6}{10} = 1\frac{1}{2}$

*fracadd_1to12_2to12_1to12_2to12***Question 26** [25 marks]

0: $\frac{11}{9} + \frac{1}{11} = 1\frac{31}{99}$

1: $\frac{4}{7} + \frac{12}{9} = 1\frac{19}{21}$

2: $\frac{11}{9} + \frac{9}{11} = 2\frac{4}{99}$

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

4: $\frac{4}{7} + \frac{1}{12} = \frac{55}{84}$

5: $\frac{6}{6} + \frac{1}{9} = 1\frac{1}{9}$

6: $\frac{10}{11} + \frac{3}{4} = 1\frac{29}{44}$

7: $\frac{5}{12} + \frac{4}{9} = \frac{31}{36}$

8: $\frac{4}{5} + \frac{12}{5} = 3\frac{1}{5}$

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

10: $\frac{6}{7} + \frac{1}{5} = 1\frac{2}{35}$

11: $\frac{8}{9} + \frac{12}{10} = 2\frac{4}{45}$

12: $\frac{10}{3} + \frac{12}{4} = 6\frac{1}{3}$

13: $\frac{11}{12} + \frac{11}{11} = 1\frac{11}{12}$

14: $\frac{7}{6} + \frac{5}{7} = 1\frac{37}{42}$

15: $\frac{8}{9} + \frac{4}{2} = 2\frac{8}{9}$

16: $\frac{4}{4} + \frac{7}{10} = 1\frac{7}{10}$

17: $\frac{12}{8} + \frac{4}{9} = 1\frac{17}{18}$

18: $\frac{4}{4} + \frac{7}{6} = 2\frac{1}{6}$

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

20: $\frac{4}{9} + \frac{5}{10} = \frac{17}{18}$

21: $\frac{7}{12} + \frac{5}{2} = 3\frac{1}{12}$

22: $\frac{9}{3} + \frac{5}{6} = 3\frac{5}{6}$

23: $\frac{8}{12} + \frac{7}{11} = 1\frac{10}{33}$

24: $\frac{5}{12} + \frac{3}{12} = \frac{2}{3}$

25: $\frac{6}{3} + \frac{8}{12} = 2\frac{2}{3}$

fracadd_1to12_2to12_1to12_2to12

Question 27 [25 marks]

0: $\frac{5}{6} + \frac{12}{12} = 1\frac{5}{6}$

1: $\frac{3}{4} + \frac{4}{5} = 1\frac{11}{20}$

2: $\frac{10}{4} + \frac{4}{2} = 4\frac{1}{2}$

3: $\frac{10}{6} + \frac{8}{4} = 3\frac{2}{3}$

4: $\frac{2}{8} + \frac{8}{11} = \frac{43}{44}$

5: $\frac{10}{3} + \frac{11}{4} = 6\frac{1}{12}$

6: $\frac{9}{5} + \frac{6}{3} = 3\frac{4}{5}$

7: $\frac{11}{2} + \frac{12}{12} = 6\frac{1}{2}$

8: $\frac{1}{12} + \frac{1}{4} = \frac{1}{3}$

9: $\frac{8}{2} + \frac{11}{10} = 5\frac{1}{10}$

10: $\frac{9}{6} + \frac{2}{12} = 1\frac{2}{3}$

11: $\frac{1}{5} + \frac{10}{9} = 1\frac{14}{45}$

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

13: $\frac{4}{7} + \frac{10}{8} = 1\frac{23}{28}$

14: $\frac{8}{4} + \frac{9}{9} = 3$

15: $\frac{10}{2} + \frac{3}{6} = 5\frac{1}{2}$

16: $\frac{2}{11} + \frac{7}{4} = 1\frac{41}{44}$

17: $\frac{9}{3} + \frac{4}{9} = 3\frac{4}{9}$

18: $\frac{10}{4} + \frac{9}{6} = 4$

19: $\frac{12}{6} + \frac{8}{10} = 2\frac{4}{5}$

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

21: $\frac{2}{5} + \frac{11}{4} = 3\frac{3}{20}$

22: $\frac{12}{12} + \frac{6}{12} = 1\frac{1}{2}$

23: $\frac{5}{11} + \frac{8}{12} = 1\frac{4}{33}$

24: $\frac{10}{9} + \frac{8}{2} = 5\frac{1}{9}$

25: $\frac{12}{4} + \frac{7}{8} = 3\frac{7}{8}$

fracadd_1to12_2to12_1to12_2to12

Question 28 [25 marks]

0: $\frac{1}{6} + \frac{8}{11} = \frac{59}{66}$

1: $\frac{1}{10} + \frac{1}{11} = \frac{21}{110}$

2: $\frac{10}{12} + \frac{4}{6} = 1\frac{1}{2}$

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

4: $\frac{3}{11} + \frac{5}{2} = 2\frac{17}{22}$

5: $\frac{6}{9} + \frac{11}{8} = 2\frac{1}{24}$

6: $\frac{10}{3} + \frac{12}{5} = 5\frac{11}{15}$

7: $\frac{12}{12} + \frac{9}{5} = 2\frac{4}{5}$

8: $\frac{7}{6} + \frac{6}{8} = 1\frac{11}{12}$

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

10: $\frac{2}{5} + \frac{5}{3} = 2\frac{1}{15}$

11: $\frac{6}{11} + \frac{12}{10} = 1\frac{41}{55}$

12: $\frac{10}{12} + \frac{4}{10} = 1\frac{7}{30}$

13: $\frac{10}{8} + \frac{2}{9} = 1\frac{17}{36}$

14: $\frac{6}{2} + \frac{8}{8} = 4$

15: $\frac{1}{4} + \frac{9}{3} = 3\frac{1}{4}$

16: $\frac{11}{3} + \frac{7}{3} = 6$

17: $\frac{4}{10} + \frac{11}{10} = 1\frac{1}{2}$

18: $\frac{1}{9} + \frac{8}{11} = \frac{83}{99}$

19: $\frac{7}{2} + \frac{2}{9} = 3\frac{13}{18}$

20: $\frac{4}{2} + \frac{9}{9} = 3$

21: $\frac{3}{5} + \frac{4}{9} = 1\frac{2}{45}$

22: $\frac{2}{11} + \frac{6}{10} = \frac{43}{55}$

23: $\frac{10}{11} + \frac{1}{2} = 1\frac{9}{22}$

24: $\frac{9}{3} + \frac{4}{11} = 3\frac{4}{11}$

25: $\frac{8}{12} + \frac{3}{9} = 1$

fracadd_1to12_2to12_1to12_2to12

Question 29 [25 marks]

- 0: $\frac{2}{8} + \frac{4}{10} = \frac{13}{20}$
 1: $\frac{2}{9} + \frac{2}{9} = \frac{4}{9}$
 2: $\frac{5}{5} + \frac{5}{2} = 3\frac{1}{2}$
 3: $\frac{5}{6} + \frac{7}{10} = 1\frac{8}{15}$
 4: $\frac{6}{10} + \frac{7}{3} = 2\frac{14}{15}$
 5: $\frac{6}{4} + \frac{1}{12} = 1\frac{7}{12}$
 6: $\frac{4}{9} + \frac{8}{4} = 2\frac{4}{9}$
 7: $\frac{11}{2} + \frac{1}{8} = 5\frac{5}{8}$
 8: $\frac{3}{12} + \frac{10}{7} = 1\frac{19}{28}$
 9: $\frac{7}{6} + \frac{8}{10} = 1\frac{29}{30}$
 10: $\frac{9}{3} + \frac{6}{2} = 6$
 11: $\frac{11}{8} + \frac{6}{7} = 2\frac{13}{56}$
 12: $\frac{9}{10} + \frac{2}{2} = 1\frac{9}{10}$
 13: $\frac{9}{5} + \frac{9}{7} = 3\frac{3}{35}$
 14: $\frac{11}{8} + \frac{8}{11} = 2\frac{9}{88}$
 15: $\frac{11}{7} + \frac{7}{7} = 2\frac{4}{7}$
 16: $\frac{4}{12} + \frac{6}{3} = 2\frac{1}{3}$
 17: $\frac{5}{11} + \frac{9}{4} = 2\frac{31}{44}$
 18: $\frac{8}{12} + \frac{4}{9} = 1\frac{1}{9}$
 19: $\frac{7}{10} + \frac{10}{3} = 4\frac{1}{30}$
 20: $\frac{7}{3} + \frac{2}{5} = 2\frac{11}{15}$
 21: $\frac{12}{9} + \frac{6}{7} = 2\frac{4}{21}$
 22: $\frac{6}{8} + \frac{7}{3} = 3\frac{1}{12}$
 23: $\frac{6}{8} + \frac{1}{4} = 1$
 24: $\frac{1}{8} + \frac{10}{7} = 1\frac{31}{56}$
 25: $\frac{12}{4} + \frac{9}{4} = 5\frac{1}{4}$

fracadd_1to12_2to12_1to12_2to12

Question 30 [25 marks]

- 0: $\frac{2}{7} + \frac{6}{10} = \frac{31}{35}$
 1: $\frac{6}{7} + \frac{10}{6} = 2\frac{11}{21}$
 2: $\frac{6}{9} + \frac{1}{10} = \frac{23}{30}$
 3: $\frac{9}{11} + \frac{11}{4} = 3\frac{25}{44}$
 4: $\frac{12}{9} + \frac{1}{10} = 1\frac{13}{30}$
 5: $\frac{3}{6} + \frac{4}{11} = \frac{19}{22}$
 6: $\frac{10}{8} + \frac{3}{9} = 1\frac{7}{12}$
 7: $\frac{9}{4} + \frac{5}{4} = 3\frac{1}{2}$
 8: $\frac{2}{9} + \frac{4}{7} = \frac{50}{63}$
 9: $\frac{12}{11} + \frac{8}{4} = 3\frac{1}{11}$
 10: $\frac{4}{4} + \frac{2}{7} = 1\frac{2}{7}$
 11: $\frac{4}{10} + \frac{1}{5} = \frac{3}{5}$
 12: $\frac{9}{8} + \frac{3}{6} = 1\frac{5}{8}$
 13: $\frac{12}{12} + \frac{6}{8} = 1\frac{3}{4}$
 14: $\frac{3}{10} + \frac{6}{5} = 1\frac{1}{2}$
 15: $\frac{2}{11} + \frac{10}{2} = 5\frac{2}{11}$
 16: $\frac{5}{11} + \frac{8}{9} = 1\frac{34}{99}$
 17: $\frac{9}{9} + \frac{5}{12} = 1\frac{5}{12}$
 18: $\frac{10}{9} + \frac{4}{5} = 1\frac{41}{45}$
 19: $\frac{7}{6} + \frac{6}{5} = 2\frac{11}{30}$
 20: $\frac{9}{11} + \frac{12}{12} = 1\frac{9}{11}$
 21: $\frac{5}{4} + \frac{4}{5} = 2\frac{1}{20}$
 22: $\frac{1}{11} + \frac{6}{6} = 1\frac{1}{11}$
 23: $\frac{1}{11} + \frac{2}{2} = 1\frac{1}{11}$
 24: $\frac{6}{4} + \frac{10}{6} = 3\frac{1}{6}$
 25: $\frac{3}{9} + \frac{2}{10} = \frac{8}{15}$

fracadd_1to12_2to12_1to12_2to12

Question 31 [25 marks]

0: $\frac{6}{11} + \frac{8}{5} = 2\frac{8}{55}$

1: $\frac{10}{4} + \frac{8}{6} = 3\frac{5}{6}$

2: $\frac{7}{12} + \frac{9}{3} = 3\frac{7}{12}$

3: $\frac{10}{4} + \frac{11}{3} = 6\frac{1}{6}$

4: $\frac{11}{11} + \frac{11}{2} = 6\frac{1}{2}$

5: $\frac{1}{10} + \frac{4}{6} = \frac{23}{30}$

6: $\frac{12}{6} + \frac{10}{8} = 3\frac{1}{4}$

7: $\frac{10}{4} + \frac{7}{9} = 3\frac{5}{18}$

8: $\frac{8}{6} + \frac{5}{9} = 1\frac{8}{9}$

9: $\frac{8}{12} + \frac{8}{9} = 1\frac{5}{9}$

10: $\frac{10}{4} + \frac{6}{3} = 4\frac{1}{2}$

11: $\frac{9}{4} + \frac{8}{6} = 3\frac{7}{12}$

12: $\frac{10}{7} + \frac{12}{5} = 3\frac{29}{35}$

13: $\frac{2}{2} + \frac{12}{5} = 3\frac{2}{5}$

14: $\frac{4}{2} + \frac{2}{10} = 2\frac{1}{5}$

15: $\frac{3}{11} + \frac{4}{12} = \frac{20}{33}$

16: $\frac{1}{8} + \frac{7}{11} = \frac{67}{88}$

17: $\frac{3}{8} + \frac{8}{10} = 1\frac{7}{40}$

18: $\frac{2}{8} + \frac{11}{8} = 1\frac{5}{8}$

19: $\frac{11}{3} + \frac{10}{7} = 5\frac{2}{21}$

20: $\frac{12}{10} + \frac{10}{8} = 2\frac{9}{20}$

21: $\frac{4}{8} + \frac{5}{12} = \frac{11}{12}$

22: $\frac{9}{5} + \frac{2}{9} = 2\frac{1}{45}$

23: $\frac{1}{9} + \frac{4}{2} = 2\frac{1}{9}$

24: $\frac{11}{9} + \frac{12}{11} = 2\frac{31}{99}$

25: $\frac{1}{3} + \frac{8}{12} = 1$

fracadd_1to12_2to12_1to12_2to12

Question 32 [25 marks]

0: $\frac{1}{11} + \frac{3}{9} = \frac{14}{33}$

1: $\frac{9}{6} + \frac{8}{5} = 3\frac{1}{10}$

2: $\frac{9}{4} + \frac{1}{5} = 2\frac{9}{20}$

3: $\frac{12}{7} + \frac{1}{6} = 1\frac{37}{42}$

4: $\frac{8}{7} + \frac{6}{7} = 2$

5: $\frac{5}{4} + \frac{11}{2} = 6\frac{3}{4}$

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

7: $\frac{8}{8} + \frac{12}{8} = 2\frac{1}{2}$

8: $\frac{10}{8} + \frac{7}{2} = 4\frac{3}{4}$

9: $\frac{2}{9} + \frac{11}{6} = 2\frac{1}{18}$

10: $\frac{11}{7} + \frac{4}{4} = 2\frac{4}{7}$

11: $\frac{12}{6} + \frac{3}{3} = 3$

12: $\frac{12}{11} + \frac{7}{7} = 2\frac{1}{11}$

13: $\frac{8}{8} + \frac{1}{6} = 1\frac{1}{6}$

14: $\frac{3}{5} + \frac{6}{3} = 2\frac{3}{5}$

15: $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$

16: $\frac{12}{4} + \frac{2}{4} = 3\frac{1}{2}$

17: $\frac{7}{12} + \frac{9}{7} = 1\frac{73}{84}$

18: $\frac{5}{10} + \frac{8}{10} = 1\frac{3}{10}$

19: $\frac{1}{12} + \frac{10}{9} = 1\frac{7}{36}$

20: $\frac{2}{9} + \frac{3}{10} = \frac{47}{90}$

21: $\frac{9}{7} + \frac{6}{7} = 2\frac{1}{7}$

22: $\frac{8}{4} + \frac{8}{8} = 3$

23: $\frac{9}{5} + \frac{2}{5} = 2\frac{1}{5}$

24: $\frac{3}{12} + \frac{5}{12} = \frac{2}{3}$

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

fracadd_1to12_2to12_1to12_2to12

Question 33 [25 marks]

0: $\frac{10}{1} + \frac{3}{3} = 11$

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

2: $\frac{11}{13} + \frac{5}{16} = 1\frac{33}{208}$

3: $\frac{1}{11} + \frac{2}{11} = \frac{3}{11}$

4: $\frac{13}{5} + \frac{11}{3} = 6\frac{4}{15}$

5: $\frac{1}{17} + \frac{4}{13} = \frac{81}{221}$

6: $\frac{5}{14} + \frac{9}{15} = \frac{67}{70}$

7: $\frac{17}{20} + \frac{6}{9} = 1\frac{31}{60}$

8: $\frac{6}{4} + \frac{18}{11} = 3\frac{3}{22}$

9: $\frac{17}{3} + \frac{12}{7} = 7\frac{8}{21}$

10: $\frac{13}{14} + \frac{11}{8} = 2\frac{17}{56}$

11: $\frac{19}{3} + \frac{20}{11} = 8\frac{5}{33}$

12: $\frac{2}{12} + \frac{18}{9} = 2\frac{1}{6}$

13: $\frac{18}{6} + \frac{5}{6} = 3\frac{5}{6}$

14: $\frac{17}{1} + \frac{14}{14} = 18$

15: $\frac{1}{17} + \frac{17}{10} = 1\frac{129}{170}$

16: $\frac{18}{16} + \frac{10}{12} = 1\frac{23}{24}$

17: $\frac{7}{3} + \frac{17}{12} = 3\frac{3}{4}$

18: $\frac{20}{4} + \frac{11}{12} = 5\frac{11}{12}$

19: $\frac{9}{18} + \frac{9}{15} = 1\frac{1}{10}$

20: $\frac{5}{18} + \frac{7}{11} = \frac{181}{198}$

21: $\frac{13}{20} + \frac{5}{17} = \frac{321}{340}$

22: $\frac{1}{2} + \frac{8}{4} = 2\frac{1}{2}$

23: $\frac{17}{6} + \frac{4}{20} = 3\frac{1}{30}$

24: $\frac{6}{1} + \frac{16}{5} = 9\frac{1}{5}$

25: $\frac{13}{2} + \frac{16}{19} = 7\frac{13}{38}$

fracadd_1to20_1to20_1to20_1to20

Question 34 [25 marks]

0: $\frac{16}{7} + \frac{16}{2} = 10\frac{2}{7}$

1: $\frac{18}{14} + \frac{1}{2} = 1\frac{11}{14}$

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

3: $\frac{12}{2} + \frac{6}{16} = 6\frac{3}{8}$

4: $\frac{10}{12} + \frac{19}{6} = 4$

5: $\frac{4}{16} + \frac{20}{20} = 1\frac{1}{4}$

6: $\frac{17}{14} + \frac{6}{14} = 1\frac{9}{14}$

7: $\frac{11}{2} + \frac{5}{18} = 5\frac{7}{9}$

8: $\frac{10}{1} + \frac{18}{20} = 10\frac{9}{10}$

9: $\frac{2}{18} + \frac{19}{8} = 2\frac{35}{72}$

10: $\frac{14}{10} + \frac{7}{18} = 1\frac{71}{90}$

11: $\frac{13}{12} + \frac{9}{8} = 2\frac{5}{24}$

12: $\frac{16}{14} + \frac{7}{1} = 8\frac{1}{7}$

13: $\frac{11}{3} + \frac{1}{4} = 3\frac{11}{12}$

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

15: $\frac{6}{20} + \frac{3}{9} = \frac{19}{30}$

16: $\frac{6}{18} + \frac{8}{8} = 1\frac{1}{3}$

17: $\frac{9}{17} + \frac{13}{14} = 1\frac{109}{238}$

18: $\frac{19}{20} + \frac{19}{9} = 3\frac{11}{180}$

19: $\frac{4}{16} + \frac{12}{19} = \frac{67}{76}$

20: $\frac{16}{13} + \frac{11}{8} = 2\frac{63}{104}$

21: $\frac{12}{13} + \frac{7}{1} = 7\frac{12}{13}$

22: $\frac{12}{13} + \frac{10}{11} = 1\frac{119}{143}$

23: $\frac{15}{20} + \frac{11}{14} = 1\frac{15}{28}$

24: $\frac{7}{13} + \frac{11}{18} = 1\frac{35}{234}$

25: $\frac{16}{11} + \frac{6}{7} = 2\frac{24}{77}$

fracadd_1to20_1to20_1to20_1to20

Question 35 [25 marks]

- 0: $\frac{10}{12} + \frac{14}{2} = 7\frac{5}{6}$
 1: $\frac{2}{16} + \frac{6}{16} = \frac{1}{2}$
 2: $\frac{1}{11} + \frac{20}{2} = 10\frac{1}{11}$
 3: $\frac{20}{15} + \frac{9}{19} = 1\frac{46}{57}$
 4: $\frac{13}{7} + \frac{3}{1} = 4\frac{6}{7}$
 5: $\frac{10}{5} + \frac{13}{14} = 2\frac{13}{14}$
 6: $\frac{14}{16} + \frac{13}{4} = 4\frac{1}{8}$
 7: $\frac{18}{2} + \frac{16}{14} = 10\frac{1}{7}$
 8: $\frac{11}{16} + \frac{4}{18} = \frac{131}{144}$
 9: $\frac{12}{13} + \frac{4}{9} = 1\frac{43}{117}$
 10: $\frac{7}{7} + \frac{2}{13} = 1\frac{2}{13}$
 11: $\frac{5}{7} + \frac{20}{14} = 2\frac{1}{7}$
 12: $\frac{4}{4} + \frac{19}{6} = 4\frac{1}{6}$
 13: $\frac{10}{15} + \frac{18}{15} = 1\frac{13}{15}$
 14: $\frac{19}{7} + \frac{19}{5} = 6\frac{18}{35}$
 15: $\frac{20}{10} + \frac{16}{9} = 3\frac{7}{9}$
 16: $\frac{15}{9} + \frac{16}{5} = 4\frac{13}{15}$
 17: $\frac{12}{1} + \frac{9}{1} = 21$
 18: $\frac{15}{3} + \frac{14}{20} = 5\frac{7}{10}$
 19: $\frac{10}{20} + \frac{1}{19} = \frac{21}{38}$
 20: $\frac{4}{1} + \frac{7}{6} = 5\frac{1}{6}$
 21: $\frac{16}{13} + \frac{11}{2} = 6\frac{19}{26}$
 22: $\frac{17}{18} + \frac{10}{11} = 1\frac{169}{198}$
 23: $\frac{13}{4} + \frac{2}{2} = 4\frac{1}{4}$
 24: $\frac{19}{4} + \frac{10}{12} = 5\frac{7}{12}$
 25: $\frac{14}{11} + \frac{19}{13} = 2\frac{105}{143}$

fracadd_1to20_1to20_1to20_1to20

Question 36 [25 marks]

- 0: $\frac{2}{3} + \frac{3}{2} = 2\frac{1}{6}$
 1: $\frac{17}{18} + \frac{11}{5} = 3\frac{13}{90}$
 2: $\frac{4}{10} + \frac{16}{19} = 1\frac{23}{95}$
 3: $\frac{1}{19} + \frac{5}{5} = 1\frac{1}{19}$
 4: $\frac{9}{12} + \frac{9}{2} = 5\frac{1}{4}$
 5: $\frac{7}{9} + \frac{12}{5} = 3\frac{8}{45}$
 6: $\frac{15}{5} + \frac{8}{20} = 3\frac{2}{5}$
 7: $\frac{4}{15} + \frac{10}{14} = \frac{103}{105}$
 8: $\frac{19}{16} + \frac{13}{13} = 2\frac{3}{16}$
 9: $\frac{16}{7} + \frac{20}{16} = 3\frac{15}{28}$
 10: $\frac{16}{7} + \frac{15}{13} = 3\frac{40}{91}$
 11: $\frac{11}{6} + \frac{12}{11} = 2\frac{61}{66}$
 12: $\frac{10}{16} + \frac{2}{12} = \frac{19}{24}$
 13: $\frac{8}{20} + \frac{9}{18} = \frac{9}{10}$
 14: $\frac{9}{8} + \frac{13}{20} = 1\frac{31}{40}$
 15: $\frac{2}{18} + \frac{12}{17} = \frac{125}{153}$
 16: $\frac{18}{10} + \frac{12}{4} = 4\frac{4}{5}$
 17: $\frac{12}{20} + \frac{12}{17} = 1\frac{26}{85}$
 18: $\frac{1}{5} + \frac{6}{6} = 1\frac{1}{5}$
 19: $\frac{13}{1} + \frac{4}{17} = 13\frac{4}{17}$
 20: $\frac{4}{1} + \frac{2}{7} = 4\frac{2}{7}$
 21: $\frac{10}{19} + \frac{2}{8} = \frac{59}{76}$
 22: $\frac{6}{18} + \frac{6}{9} = 1$
 23: $\frac{15}{13} + \frac{5}{5} = 2\frac{2}{13}$
 24: $\frac{12}{3} + \frac{19}{10} = 5\frac{9}{10}$
 25: $\frac{19}{8} + \frac{18}{15} = 3\frac{23}{40}$

fracadd_1to20_1to20_1to20_1to20

Question 37 [25 marks]

0: $\frac{7}{1} + \frac{13}{11} = 8\frac{2}{11}$

1: $\frac{1}{5} + \frac{7}{8} = 1\frac{3}{40}$

2: $\frac{14}{16} + \frac{16}{4} = 4\frac{7}{8}$

3: $\frac{16}{8} + \frac{5}{11} = 2\frac{5}{11}$

4: $\frac{10}{15} + \frac{9}{1} = 9\frac{2}{3}$

5: $\frac{1}{16} + \frac{5}{8} = \frac{11}{16}$

6: $\frac{1}{4} + \frac{14}{12} = 1\frac{5}{12}$

7: $\frac{12}{20} + \frac{10}{10} = 1\frac{3}{5}$

8: $\frac{8}{19} + \frac{2}{4} = \frac{35}{38}$

9: $\frac{6}{12} + \frac{15}{6} = 3$

10: $\frac{19}{14} + \frac{11}{9} = 2\frac{73}{126}$

11: $\frac{20}{2} + \frac{17}{2} = 18\frac{1}{2}$

12: $\frac{13}{11} + \frac{4}{8} = 1\frac{15}{22}$

13: $\frac{14}{13} + \frac{13}{7} = 2\frac{85}{91}$

14: $\frac{17}{1} + \frac{7}{7} = 18$

15: $\frac{18}{6} + \frac{14}{17} = 3\frac{14}{17}$

16: $\frac{10}{19} + \frac{16}{1} = 16\frac{10}{19}$

17: $\frac{15}{7} + \frac{3}{4} = 2\frac{25}{28}$

18: $\frac{17}{8} + \frac{5}{13} = 2\frac{53}{104}$

19: $\frac{14}{14} + \frac{12}{17} = 1\frac{12}{17}$

20: $\frac{2}{6} + \frac{12}{5} = 2\frac{11}{15}$

21: $\frac{12}{10} + \frac{3}{5} = 1\frac{4}{5}$

22: $\frac{4}{7} + \frac{17}{9} = 2\frac{29}{63}$

23: $\frac{20}{16} + \frac{13}{15} = 2\frac{7}{60}$

24: $\frac{11}{7} + \frac{9}{7} = 2\frac{6}{7}$

25: $\frac{3}{13} + \frac{1}{4} = \frac{25}{52}$

*fracadd_1to20_1to20_1to20_1to20***Question 38** [25 marks]

0: $\frac{8}{19} + \frac{11}{11} = 1\frac{8}{19}$

1: $\frac{13}{3} + \frac{18}{19} = 5\frac{16}{57}$

2: $\frac{4}{8} + \frac{3}{20} = \frac{13}{20}$

3: $\frac{14}{5} + \frac{14}{10} = 4\frac{1}{5}$

4: $\frac{4}{5} + \frac{14}{9} = 2\frac{16}{45}$

5: $\frac{15}{12} + \frac{7}{1} = 8\frac{1}{4}$

6: $\frac{17}{3} + \frac{13}{8} = 7\frac{7}{24}$

7: $\frac{12}{10} + \frac{12}{8} = 2\frac{7}{10}$

8: $\frac{8}{4} + \frac{7}{20} = 2\frac{7}{20}$

9: $\frac{15}{3} + \frac{16}{14} = 6\frac{1}{7}$

10: $\frac{5}{1} + \frac{17}{9} = 6\frac{8}{9}$

11: $\frac{5}{16} + \frac{13}{13} = 1\frac{5}{16}$

12: $\frac{16}{15} + \frac{11}{15} = 1\frac{4}{5}$

13: $\frac{20}{9} + \frac{7}{20} = 2\frac{103}{180}$

14: $\frac{20}{12} + \frac{19}{2} = 11\frac{1}{6}$

15: $\frac{9}{12} + \frac{19}{18} = 1\frac{29}{36}$

16: $\frac{20}{20} + \frac{7}{15} = 1\frac{7}{15}$

17: $\frac{20}{5} + \frac{1}{16} = 4\frac{1}{16}$

18: $\frac{20}{4} + \frac{13}{18} = 5\frac{13}{18}$

19: $\frac{18}{8} + \frac{2}{14} = 2\frac{11}{28}$

20: $\frac{14}{6} + \frac{8}{2} = 6\frac{1}{3}$

21: $\frac{9}{3} + \frac{10}{1} = 13$

22: $\frac{15}{13} + \frac{10}{17} = 1\frac{164}{221}$

23: $\frac{19}{12} + \frac{17}{8} = 3\frac{17}{24}$

24: $\frac{3}{13} + \frac{6}{18} = \frac{22}{39}$

25: $\frac{15}{7} + \frac{4}{15} = 2\frac{43}{105}$

fracadd_1to20_1to20_1to20_1to20

Question 39 [25 marks]

0: $\frac{4}{8} + \frac{15}{5} = 3\frac{1}{2}$

1: $\frac{14}{3} + \frac{5}{14} = 5\frac{1}{42}$

2: $\frac{1}{2} + \frac{4}{10} = \frac{9}{10}$

3: $\frac{19}{7} + \frac{17}{8} = 4\frac{47}{56}$

4: $\frac{7}{9} + \frac{2}{18} = \frac{8}{9}$

5: $\frac{19}{19} + \frac{3}{2} = 2\frac{1}{2}$

6: $\frac{11}{20} + \frac{2}{17} = \frac{227}{340}$

7: $\frac{8}{15} + \frac{2}{14} = \frac{71}{105}$

8: $\frac{16}{11} + \frac{11}{5} = 3\frac{36}{55}$

9: $\frac{18}{11} + \frac{1}{2} = 2\frac{3}{22}$

10: $\frac{16}{8} + \frac{8}{13} = 2\frac{8}{13}$

11: $\frac{13}{12} + \frac{6}{1} = 7\frac{1}{12}$

12: $\frac{6}{8} + \frac{7}{3} = 3\frac{1}{12}$

13: $\frac{6}{1} + \frac{19}{2} = 15\frac{1}{2}$

14: $\frac{8}{9} + \frac{1}{7} = 1\frac{2}{63}$

15: $\frac{17}{7} + \frac{18}{6} = 5\frac{3}{7}$

16: $\frac{5}{2} + \frac{3}{18} = 2\frac{2}{3}$

17: $\frac{2}{18} + \frac{11}{15} = \frac{38}{45}$

18: $\frac{18}{20} + \frac{15}{10} = 2\frac{2}{5}$

19: $\frac{13}{5} + \frac{2}{13} = 2\frac{49}{65}$

20: $\frac{7}{8} + \frac{13}{17} = 1\frac{87}{136}$

21: $\frac{18}{15} + \frac{17}{18} = 2\frac{13}{90}$

22: $\frac{15}{13} + \frac{4}{20} = 1\frac{23}{65}$

23: $\frac{4}{12} + \frac{8}{4} = 2\frac{1}{3}$

24: $\frac{14}{3} + \frac{4}{10} = 5\frac{1}{15}$

25: $\frac{12}{3} + \frac{12}{16} = 4\frac{3}{4}$

*fracadd_1to20_1to20_1to20_1to20***Question 40** [25 marks]

0: $\frac{12}{15} + \frac{7}{10} = 1\frac{1}{2}$

1: $\frac{19}{5} + \frac{15}{17} = 4\frac{58}{85}$

2: $\frac{11}{7} + \frac{2}{4} = 2\frac{1}{14}$

3: $\frac{3}{2} + \frac{5}{12} = 1\frac{11}{12}$

4: $\frac{10}{19} + \frac{12}{7} = 2\frac{32}{133}$

5: $\frac{12}{3} + \frac{3}{12} = 4\frac{1}{4}$

6: $\frac{10}{3} + \frac{19}{10} = 5\frac{7}{30}$

7: $\frac{10}{9} + \frac{13}{10} = 2\frac{37}{90}$

8: $\frac{11}{17} + \frac{13}{11} = 1\frac{155}{187}$

9: $\frac{18}{10} + \frac{19}{8} = 4\frac{7}{40}$

10: $\frac{9}{18} + \frac{13}{17} = 1\frac{9}{34}$

11: $\frac{10}{20} + \frac{14}{8} = 2\frac{1}{4}$

12: $\frac{13}{18} + \frac{14}{20} = 1\frac{19}{45}$

13: $\frac{20}{16} + \frac{4}{16} = 1\frac{1}{2}$

14: $\frac{8}{6} + \frac{16}{15} = 2\frac{2}{5}$

15: $\frac{14}{18} + \frac{19}{17} = 1\frac{137}{153}$

16: $\frac{20}{5} + \frac{5}{7} = 4\frac{5}{7}$

17: $\frac{2}{11} + \frac{3}{4} = \frac{41}{44}$

18: $\frac{9}{15} + \frac{16}{10} = 2\frac{1}{5}$

19: $\frac{20}{11} + \frac{12}{9} = 3\frac{5}{33}$

20: $\frac{16}{8} + \frac{11}{20} = 2\frac{11}{20}$

21: $\frac{12}{15} + \frac{11}{18} = 1\frac{37}{90}$

22: $\frac{2}{19} + \frac{20}{13} = 1\frac{159}{247}$

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

24: $\frac{19}{3} + \frac{9}{15} = 6\frac{14}{15}$

25: $\frac{10}{14} + \frac{20}{18} = 1\frac{52}{63}$

fracadd_1to20_1to20_1to20_1to20

Question 41 [25 marks]

- 0: $\frac{3}{19} + \frac{15}{4} = 3\frac{69}{76}$
 1: $\frac{2}{10} + \frac{16}{14} = 1\frac{12}{35}$
 2: $\frac{8}{2} + \frac{12}{14} = 4\frac{6}{7}$
 3: $\frac{16}{14} + \frac{1}{20} = 1\frac{27}{140}$
 4: $\frac{3}{19} + \frac{17}{19} = 1\frac{1}{19}$
 5: $\frac{19}{20} + \frac{9}{3} = 3\frac{19}{20}$
 6: $\frac{1}{6} + \frac{19}{19} = 1\frac{1}{6}$
 7: $\frac{13}{8} + \frac{5}{14} = 1\frac{55}{56}$
 8: $\frac{3}{9} + \frac{11}{18} = \frac{17}{18}$
 9: $\frac{11}{1} + \frac{15}{6} = 13\frac{1}{2}$
 10: $\frac{11}{10} + \frac{11}{19} = 1\frac{129}{190}$
 11: $\frac{18}{8} + \frac{17}{12} = 3\frac{2}{3}$
 12: $\frac{9}{20} + \frac{13}{10} = 1\frac{3}{4}$
 13: $\frac{15}{10} + \frac{2}{8} = 1\frac{3}{4}$
 14: $\frac{12}{1} + \frac{20}{11} = 13\frac{9}{11}$
 15: $\frac{5}{4} + \frac{9}{3} = 4\frac{1}{4}$
 16: $\frac{14}{8} + \frac{12}{1} = 13\frac{3}{4}$
 17: $\frac{8}{17} + \frac{7}{5} = 1\frac{74}{85}$
 18: $\frac{1}{18} + \frac{8}{1} = 8\frac{1}{18}$
 19: $\frac{7}{8} + \frac{11}{4} = 3\frac{5}{8}$
 20: $\frac{3}{18} + \frac{9}{12} = \frac{11}{12}$
 21: $\frac{12}{19} + \frac{19}{6} = 3\frac{91}{114}$
 22: $\frac{18}{4} + \frac{3}{2} = 6$
 23: $\frac{16}{11} + \frac{19}{15} = 2\frac{119}{165}$
 24: $\frac{6}{3} + \frac{6}{16} = 2\frac{3}{8}$
 25: $\frac{14}{3} + \frac{17}{8} = 6\frac{19}{24}$

fracadd_1to20_1to20_1to20_1to20

Question 42 [25 marks]

- 0: $\frac{4}{4} + \frac{3}{20} = 1\frac{3}{20}$
 1: $\frac{13}{18} + \frac{7}{20} = 1\frac{13}{180}$
 2: $\frac{13}{11} + \frac{14}{2} = 8\frac{2}{11}$
 3: $\frac{6}{4} + \frac{6}{19} = 1\frac{31}{38}$
 4: $\frac{1}{7} + \frac{15}{9} = 1\frac{17}{21}$
 5: $\frac{20}{19} + \frac{10}{5} = 3\frac{1}{19}$
 6: $\frac{13}{5} + \frac{15}{19} = 3\frac{37}{95}$
 7: $\frac{15}{19} + \frac{7}{3} = 3\frac{7}{57}$
 8: $\frac{1}{12} + \frac{18}{14} = 1\frac{31}{84}$
 9: $\frac{19}{20} + \frac{7}{3} = 3\frac{17}{60}$
 10: $\frac{14}{5} + \frac{20}{20} = 3\frac{4}{5}$
 11: $\frac{14}{1} + \frac{7}{11} = 14\frac{7}{11}$
 12: $\frac{8}{15} + \frac{9}{9} = 1\frac{8}{15}$
 13: $\frac{14}{13} + \frac{10}{13} = 1\frac{11}{13}$
 14: $\frac{10}{16} + \frac{14}{9} = 2\frac{13}{72}$
 15: $\frac{19}{4} + \frac{5}{9} = 5\frac{11}{36}$
 16: $\frac{13}{6} + \frac{20}{12} = 3\frac{5}{6}$
 17: $\frac{20}{13} + \frac{4}{17} = 1\frac{171}{221}$
 18: $\frac{2}{9} + \frac{16}{12} = 1\frac{5}{9}$
 19: $\frac{17}{7} + \frac{6}{16} = 2\frac{45}{56}$
 20: $\frac{8}{18} + \frac{12}{16} = 1\frac{7}{36}$
 21: $\frac{14}{4} + \frac{10}{9} = 4\frac{11}{18}$
 22: $\frac{18}{5} + \frac{2}{9} = 3\frac{37}{45}$
 23: $\frac{11}{19} + \frac{20}{16} = 1\frac{63}{76}$
 24: $\frac{18}{20} + \frac{19}{3} = 7\frac{7}{30}$
 25: $\frac{18}{5} + \frac{14}{20} = 4\frac{3}{10}$

fracadd_1to20_1to20_1to20_1to20

Question 43 [25 marks]

- 0: $\frac{1}{1} + \frac{7}{15} = 1\frac{7}{15}$
 1: $\frac{12}{6} + \frac{15}{20} = 2\frac{3}{4}$
 2: $\frac{14}{7} + \frac{4}{7} = 2\frac{4}{7}$
 3: $\frac{6}{16} + \frac{2}{5} = \frac{31}{40}$
 4: $\frac{19}{16} + \frac{8}{15} = 1\frac{173}{240}$
 5: $\frac{18}{12} + \frac{6}{18} = 1\frac{5}{6}$
 6: $\frac{1}{18} + \frac{2}{6} = \frac{7}{18}$
 7: $\frac{1}{7} + \frac{8}{17} = \frac{73}{119}$
 8: $\frac{4}{5} + \frac{17}{5} = 4\frac{1}{5}$
 9: $\frac{11}{1} + \frac{13}{7} = 12\frac{6}{7}$
 10: $\frac{3}{3} + \frac{14}{16} = 1\frac{7}{8}$
 11: $\frac{13}{20} + \frac{8}{19} = 1\frac{27}{380}$
 12: $\frac{3}{1} + \frac{16}{15} = 4\frac{1}{15}$
 13: $\frac{6}{10} + \frac{9}{14} = 1\frac{17}{70}$
 14: $\frac{10}{5} + \frac{18}{3} = 8$
 15: $\frac{5}{14} + \frac{16}{19} = 1\frac{53}{266}$
 16: $\frac{15}{19} + \frac{19}{8} = 3\frac{25}{152}$
 17: $\frac{1}{11} + \frac{15}{8} = 1\frac{85}{88}$
 18: $\frac{3}{9} + \frac{5}{10} = \frac{5}{6}$
 19: $\frac{19}{12} + \frac{17}{16} = 2\frac{31}{48}$
 20: $\frac{19}{5} + \frac{17}{15} = 4\frac{14}{15}$
 21: $\frac{9}{20} + \frac{2}{15} = \frac{7}{12}$
 22: $\frac{11}{13} + \frac{20}{18} = 1\frac{112}{117}$
 23: $\frac{3}{19} + \frac{18}{8} = 2\frac{31}{76}$
 24: $\frac{16}{7} + \frac{5}{8} = 2\frac{51}{56}$
 25: $\frac{10}{1} + \frac{7}{14} = 10\frac{1}{2}$

fracadd_1to20_1to20_1to20_1to20

Question 44 [25 marks]

- 0: $\frac{7}{8} + \frac{8}{5} = 2\frac{19}{40}$
 1: $\frac{4}{3} + \frac{12}{8} = 2\frac{5}{6}$
 2: $\frac{17}{1} + \frac{1}{14} = 17\frac{1}{14}$
 3: $\frac{4}{16} + \frac{19}{18} = 1\frac{11}{36}$
 4: $\frac{4}{4} + \frac{4}{3} = 2\frac{1}{3}$
 5: $\frac{10}{5} + \frac{4}{19} = 2\frac{4}{19}$
 6: $\frac{2}{7} + \frac{13}{12} = 1\frac{31}{84}$
 7: $\frac{1}{18} + \frac{4}{12} = \frac{7}{18}$
 8: $\frac{13}{1} + \frac{17}{2} = 21\frac{1}{2}$
 9: $\frac{3}{18} + \frac{9}{18} = \frac{2}{3}$
 10: $\frac{9}{18} + \frac{19}{6} = 3\frac{2}{3}$
 11: $\frac{13}{9} + \frac{10}{3} = 4\frac{7}{9}$
 12: $\frac{5}{17} + \frac{17}{9} = 2\frac{28}{153}$
 13: $\frac{7}{7} + \frac{5}{2} = 3\frac{1}{2}$
 14: $\frac{7}{13} + \frac{12}{3} = 4\frac{7}{13}$
 15: $\frac{4}{3} + \frac{6}{3} = 3\frac{1}{3}$
 16: $\frac{9}{12} + \frac{11}{1} = 11\frac{3}{4}$
 17: $\frac{17}{5} + \frac{2}{2} = 4\frac{2}{5}$
 18: $\frac{19}{11} + \frac{1}{3} = 2\frac{2}{33}$
 19: $\frac{14}{1} + \frac{6}{4} = 15\frac{1}{2}$
 20: $\frac{14}{9} + \frac{17}{6} = 4\frac{7}{18}$
 21: $\frac{6}{6} + \frac{20}{1} = 21$
 22: $\frac{2}{14} + \frac{7}{16} = \frac{65}{112}$
 23: $\frac{17}{13} + \frac{18}{20} = 2\frac{27}{130}$
 24: $\frac{20}{10} + \frac{5}{16} = 2\frac{5}{16}$
 25: $\frac{11}{5} + \frac{16}{1} = 18\frac{1}{5}$

fracadd_1to20_1to20_1to20_1to20

Question 45 [25 marks]

- 0: $\frac{7}{7} + \frac{7}{11} = 1\frac{7}{11}$
 1: $\frac{20}{1} + \frac{9}{14} = 20\frac{9}{14}$
 2: $\frac{2}{2} + \frac{5}{4} = 2\frac{1}{4}$
 3: $\frac{2}{9} + \frac{18}{1} = 18\frac{2}{9}$
 4: $\frac{7}{18} + \frac{11}{17} = 1\frac{11}{306}$
 5: $\frac{6}{3} + \frac{16}{13} = 3\frac{3}{13}$
 6: $\frac{12}{19} + \frac{7}{11} = 1\frac{56}{209}$
 7: $\frac{19}{6} + \frac{3}{18} = 3\frac{1}{3}$
 8: $\frac{14}{13} + \frac{3}{20} = 1\frac{59}{260}$
 9: $\frac{1}{8} + \frac{9}{12} = \frac{7}{8}$
 10: $\frac{17}{3} + \frac{19}{18} = 6\frac{13}{18}$
 11: $\frac{7}{12} + \frac{9}{1} = 9\frac{7}{12}$
 12: $\frac{3}{19} + \frac{19}{1} = 19\frac{3}{19}$
 13: $\frac{7}{1} + \frac{13}{18} = 7\frac{13}{18}$
 14: $\frac{1}{13} + \frac{3}{14} = \frac{53}{182}$
 15: $\frac{8}{4} + \frac{16}{1} = 18$
 16: $\frac{3}{10} + \frac{10}{8} = 1\frac{11}{20}$
 17: $\frac{7}{13} + \frac{17}{20} = 1\frac{101}{260}$
 18: $\frac{18}{9} + \frac{8}{18} = 2\frac{4}{9}$
 19: $\frac{6}{15} + \frac{19}{18} = 1\frac{41}{90}$
 20: $\frac{5}{16} + \frac{14}{14} = 1\frac{5}{16}$
 21: $\frac{16}{15} + \frac{18}{5} = 4\frac{2}{3}$
 22: $\frac{14}{8} + \frac{20}{11} = 3\frac{25}{44}$
 23: $\frac{15}{17} + \frac{8}{17} = 1\frac{6}{17}$
 24: $\frac{2}{2} + \frac{2}{4} = 1\frac{1}{2}$
 25: $\frac{7}{13} + \frac{10}{2} = 5\frac{7}{13}$

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Question 46 [25 marks]

- 0: $\frac{2}{19} + \frac{9}{12} = \frac{65}{76}$
 1: $\frac{5}{16} + \frac{17}{6} = 3\frac{7}{48}$
 2: $\frac{2}{5} + \frac{15}{4} = 4\frac{3}{20}$
 3: $\frac{16}{4} + \frac{20}{7} = 6\frac{6}{7}$
 4: $\frac{7}{2} + \frac{5}{19} = 3\frac{29}{38}$
 5: $\frac{4}{2} + \frac{19}{17} = 3\frac{2}{17}$
 6: $\frac{12}{6} + \frac{8}{1} = 10$
 7: $\frac{14}{13} + \frac{8}{9} = 1\frac{113}{117}$
 8: $\frac{15}{10} + \frac{4}{4} = 2\frac{1}{2}$
 9: $\frac{17}{17} + \frac{16}{8} = 3$
 10: $\frac{1}{14} + \frac{12}{6} = 2\frac{1}{14}$
 11: $\frac{11}{5} + \frac{8}{3} = 4\frac{13}{15}$
 12: $\frac{13}{18} + \frac{4}{18} = \frac{17}{18}$
 13: $\frac{15}{17} + \frac{13}{20} = 1\frac{181}{340}$
 14: $\frac{14}{15} + \frac{13}{13} = 1\frac{14}{15}$
 15: $\frac{4}{1} + \frac{7}{18} = 4\frac{7}{18}$
 16: $\frac{9}{20} + \frac{9}{19} = \frac{351}{380}$
 17: $\frac{5}{10} + \frac{2}{5} = \frac{9}{10}$
 18: $\frac{18}{5} + \frac{8}{12} = 4\frac{4}{15}$
 19: $\frac{9}{6} + \frac{11}{19} = 2\frac{3}{38}$
 20: $\frac{8}{3} + \frac{1}{15} = 2\frac{11}{15}$
 21: $\frac{6}{5} + \frac{9}{14} = 1\frac{59}{70}$
 22: $\frac{8}{16} + \frac{11}{7} = 2\frac{1}{14}$
 23: $\frac{8}{12} + \frac{2}{17} = \frac{40}{51}$
 24: $\frac{9}{13} + \frac{4}{19} = \frac{223}{247}$
 25: $\frac{4}{7} + \frac{17}{1} = 17\frac{4}{7}$

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Question 47 [25 marks]

- 0: $\frac{20}{9} + \frac{12}{16} = 2\frac{35}{36}$
 1: $\frac{8}{19} + \frac{8}{18} = \frac{148}{171}$
 2: $\frac{11}{2} + \frac{17}{20} = 6\frac{7}{20}$
 3: $\frac{5}{16} + \frac{11}{19} = \frac{271}{304}$
 4: $\frac{19}{18} + \frac{10}{10} = 2\frac{1}{18}$
 5: $\frac{3}{7} + \frac{19}{2} = 9\frac{13}{14}$
 6: $\frac{15}{4} + \frac{10}{17} = 4\frac{23}{68}$
 7: $\frac{4}{20} + \frac{17}{12} = 1\frac{37}{60}$
 8: $\frac{7}{3} + \frac{2}{2} = 3\frac{1}{3}$
 9: $\frac{20}{17} + \frac{6}{17} = 1\frac{9}{17}$
 10: $\frac{6}{1} + \frac{5}{15} = 6\frac{1}{3}$
 11: $\frac{8}{7} + \frac{7}{1} = 8\frac{1}{7}$
 12: $\frac{15}{7} + \frac{12}{2} = 8\frac{1}{7}$
 13: $\frac{2}{8} + \frac{3}{14} = \frac{13}{28}$
 14: $\frac{4}{11} + \frac{15}{12} = 1\frac{27}{44}$
 15: $\frac{19}{3} + \frac{3}{7} = 6\frac{16}{21}$
 16: $\frac{15}{18} + \frac{3}{6} = 1\frac{1}{3}$
 17: $\frac{18}{6} + \frac{18}{4} = 7\frac{1}{2}$
 18: $\frac{14}{18} + \frac{16}{9} = 2\frac{5}{9}$
 19: $\frac{3}{16} + \frac{18}{14} = 1\frac{53}{112}$
 20: $\frac{18}{10} + \frac{14}{13} = 2\frac{57}{65}$
 21: $\frac{4}{19} + \frac{5}{8} = \frac{127}{152}$
 22: $\frac{3}{9} + \frac{5}{4} = 1\frac{7}{12}$
 23: $\frac{15}{7} + \frac{4}{20} = 2\frac{12}{35}$
 24: $\frac{9}{11} + \frac{5}{20} = 1\frac{3}{44}$
 25: $\frac{14}{8} + \frac{10}{10} = 2\frac{3}{4}$

fracadd_1to20_1to20_1to20_1to20

Question 48 [25 marks]

- 0: $\frac{6}{18} + \frac{20}{18} = 1\frac{4}{9}$
 1: $\frac{14}{15} + \frac{20}{7} = 3\frac{83}{105}$
 2: $\frac{2}{7} + \frac{1}{5} = \frac{17}{35}$
 3: $\frac{9}{5} + \frac{8}{13} = 2\frac{27}{65}$
 4: $\frac{18}{20} + \frac{17}{17} = 1\frac{9}{10}$
 5: $\frac{15}{7} + \frac{5}{5} = 3\frac{1}{7}$
 6: $\frac{2}{10} + \frac{20}{9} = 2\frac{19}{45}$
 7: $\frac{1}{5} + \frac{11}{1} = 11\frac{1}{5}$
 8: $\frac{6}{5} + \frac{7}{2} = 4\frac{7}{10}$
 9: $\frac{11}{7} + \frac{8}{20} = 1\frac{34}{35}$
 10: $\frac{20}{12} + \frac{3}{9} = 2$
 11: $\frac{2}{16} + \frac{5}{10} = \frac{5}{8}$
 12: $\frac{16}{1} + \frac{3}{14} = 16\frac{3}{14}$
 13: $\frac{1}{20} + \frac{17}{5} = 3\frac{9}{20}$
 14: $\frac{1}{13} + \frac{18}{16} = 1\frac{21}{104}$
 15: $\frac{13}{18} + \frac{8}{8} = 1\frac{13}{18}$
 16: $\frac{3}{12} + \frac{2}{17} = \frac{25}{68}$
 17: $\frac{6}{3} + \frac{3}{6} = 2\frac{1}{2}$
 18: $\frac{12}{19} + \frac{4}{15} = \frac{256}{285}$
 19: $\frac{12}{10} + \frac{3}{4} = 1\frac{19}{20}$
 20: $\frac{1}{13} + \frac{17}{3} = 5\frac{29}{39}$
 21: $\frac{5}{15} + \frac{1}{3} = \frac{2}{3}$
 22: $\frac{7}{9} + \frac{6}{12} = 1\frac{5}{18}$
 23: $\frac{1}{17} + \frac{4}{4} = 1\frac{1}{17}$
 24: $\frac{20}{15} + \frac{13}{2} = 7\frac{5}{6}$
 25: $\frac{19}{20} + \frac{4}{19} = 1\frac{61}{380}$

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