

Question 1 [25 marks]

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

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

2: $\frac{1}{9} \div \frac{5}{11} = \frac{11}{45}$

3: $\frac{1}{12} \times \frac{1}{7} = \frac{1}{84}$

4: $\frac{1}{7} \times \frac{2}{9} = \frac{2}{63}$

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

6: $\frac{4}{9} \div \frac{4}{11} = 1\frac{2}{9}$

7: $\frac{2}{9} \times \frac{4}{12} = \frac{2}{27}$

8: $\frac{3}{10} - \frac{2}{9} = \frac{7}{90}$

9: $\frac{4}{9} \div \frac{3}{9} = 1\frac{1}{3}$

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

11: $\frac{4}{12} \times \frac{2}{8} = \frac{1}{12}$

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

13: $\frac{1}{12} \div \frac{3}{12} = \frac{1}{3}$

14: $\frac{2}{10} \times \frac{3}{7} = \frac{3}{35}$

15: $\frac{3}{12} - \frac{1}{7} = \frac{3}{28}$

16: $\frac{1}{6} \div \frac{3}{12} = \frac{2}{3}$

17: $\frac{1}{12} + \frac{1}{8} = \frac{5}{24}$

18: $\frac{1}{7} \div \frac{4}{11} = \frac{11}{28}$

19: $\frac{5}{12} + \frac{4}{7} = \frac{83}{84}$

20: $\frac{1}{7} \times \frac{1}{7} = \frac{1}{49}$

21: $\frac{2}{12} \div \frac{5}{6} = \frac{1}{5}$

22: $\frac{2}{11} \div \frac{4}{8} = \frac{4}{11}$

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

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

25: $\frac{2}{8} \times \frac{4}{7} = \frac{1}{7}$

fracmix_1to5_6to12_1to5_6to12

Question 2 [25 marks]

0: $\frac{4}{7} \div \frac{3}{12} = 2\frac{2}{7}$

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

2: $\frac{1}{6} \div \frac{4}{11} = \frac{11}{24}$

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

4: $\frac{5}{10} + \frac{1}{12} = \frac{7}{12}$

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

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

7: $\frac{4}{7} \div \frac{1}{7} = 4$

8: $\frac{4}{9} \div \frac{2}{10} = 2\frac{2}{9}$

9: $\frac{1}{8} \times \frac{3}{8} = \frac{3}{64}$

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

11: $\frac{1}{10} \times \frac{2}{10} = \frac{1}{50}$

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

13: $\frac{3}{9} - \frac{5}{9} = \frac{-2}{9}$

14: $\frac{3}{11} \times \frac{3}{7} = \frac{9}{77}$

15: $\frac{1}{9} + \frac{4}{12} = \frac{4}{9}$

16: $\frac{1}{7} - \frac{3}{8} = \frac{-13}{56}$

17: $\frac{1}{10} \times \frac{1}{6} = \frac{1}{60}$

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

19: $\frac{4}{8} \times \frac{4}{8} = \frac{1}{4}$

20: $\frac{5}{12} \times \frac{2}{10} = \frac{1}{12}$

21: $\frac{3}{8} + \frac{5}{12} = \frac{19}{24}$

22: $\frac{2}{8} - \frac{3}{12} = 0$

23: $\frac{5}{10} \times \frac{1}{9} = \frac{1}{18}$

24: $\frac{2}{10} - \frac{4}{6} = \frac{-7}{15}$

25: $\frac{4}{8} \div \frac{3}{8} = 1\frac{1}{3}$

fracmix_1to5_6to12_1to5_6to12

Question 3 [25 marks]

0: $\frac{4}{11} \times \frac{1}{12} = \frac{1}{33}$

1: $\frac{4}{10} \times \frac{1}{11} = \frac{2}{55}$

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

3: $\frac{3}{12} + \frac{2}{11} = \frac{19}{44}$

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

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

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

7: $\frac{4}{9} - \frac{4}{10} = \frac{2}{45}$

8: $\frac{3}{10} \times \frac{2}{8} = \frac{3}{40}$

9: $\frac{1}{12} \times \frac{1}{11} = \frac{1}{132}$

10: $\frac{3}{7} \times \frac{2}{8} = \frac{3}{28}$

11: $\frac{2}{11} \times \frac{1}{8} = \frac{1}{44}$

12: $\frac{3}{11} \times \frac{3}{12} = \frac{3}{44}$

13: $\frac{4}{12} \div \frac{5}{11} = \frac{11}{15}$

14: $\frac{5}{10} \div \frac{4}{11} = 1\frac{3}{8}$

15: $\frac{1}{10} + \frac{5}{7} = \frac{57}{70}$

16: $\frac{3}{7} \div \frac{4}{11} = 1\frac{5}{28}$

17: $\frac{4}{9} \div \frac{2}{6} = 1\frac{1}{3}$

18: $\frac{1}{6} - \frac{4}{11} = \frac{-13}{66}$

19: $\frac{5}{11} + \frac{5}{8} = 1\frac{7}{88}$

20: $\frac{3}{12} \times \frac{5}{7} = \frac{5}{28}$

21: $\frac{1}{7} \div \frac{1}{12} = 1\frac{5}{7}$

22: $\frac{4}{11} + \frac{2}{12} = \frac{35}{66}$

23: $\frac{5}{8} - \frac{3}{11} = \frac{31}{88}$

24: $\frac{2}{8} - \frac{2}{8} = 0$

25: $\frac{4}{12} \times \frac{5}{12} = \frac{5}{36}$

Question 4 [25 marks]

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

1: $\frac{3}{6} - \frac{1}{9} = \frac{7}{18}$

2: $\frac{2}{8} - \frac{3}{10} = \frac{-1}{20}$

3: $\frac{2}{7} + \frac{5}{6} = 1\frac{5}{42}$

4: $\frac{1}{11} \times \frac{2}{11} = \frac{2}{121}$

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

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

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

8: $\frac{2}{9} + \frac{5}{8} = \frac{61}{72}$

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

10: $\frac{3}{10} - \frac{4}{9} = \frac{-13}{90}$

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

12: $\frac{4}{11} - \frac{4}{6} = \frac{-10}{33}$

13: $\frac{2}{11} \div \frac{5}{10} = \frac{4}{11}$

14: $\frac{3}{10} - \frac{4}{10} = \frac{-1}{10}$

15: $\frac{2}{7} - \frac{4}{11} = \frac{-6}{77}$

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

17: $\frac{3}{12} - \frac{2}{12} = \frac{1}{12}$

18: $\frac{3}{10} \div \frac{3}{12} = 1\frac{1}{5}$

19: $\frac{3}{7} - \frac{3}{8} = \frac{3}{56}$

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

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

22: $\frac{1}{8} \div \frac{3}{10} = \frac{5}{12}$

23: $\frac{2}{9} \div \frac{2}{6} = \frac{2}{3}$

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

25: $\frac{2}{10} \times \frac{1}{12} = \frac{1}{60}$

fracmix_1to5_6to12_1to5_6to12

fracmix_1to5_6to12_1to5_6to12

Question 5 [25 marks]

0: $\frac{3}{12} \div \frac{3}{12} = 1$

1: $\frac{4}{7} - \frac{2}{12} = \frac{17}{42}$

2: $\frac{3}{9} \times \frac{5}{7} = \frac{5}{21}$

3: $\frac{5}{9} \times \frac{2}{6} = \frac{5}{27}$

4: $\frac{4}{8} \times \frac{5}{6} = \frac{5}{12}$

5: $\frac{5}{11} - \frac{1}{11} = \frac{4}{11}$

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

7: $\frac{4}{6} - \frac{1}{7} = \frac{11}{21}$

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

9: $\frac{5}{12} \times \frac{2}{12} = \frac{5}{72}$

10: $\frac{4}{10} - \frac{1}{9} = \frac{13}{45}$

11: $\frac{4}{10} - \frac{5}{12} = \frac{-1}{60}$

12: $\frac{2}{8} \times \frac{3}{10} = \frac{3}{40}$

13: $\frac{5}{11} \times \frac{5}{6} = \frac{25}{66}$

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

15: $\frac{1}{11} + \frac{5}{10} = \frac{13}{22}$

16: $\frac{4}{8} \div \frac{4}{9} = 1\frac{1}{8}$

17: $\frac{4}{6} \times \frac{5}{8} = \frac{5}{12}$

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

19: $\frac{1}{10} - \frac{2}{9} = \frac{-11}{90}$

20: $\frac{4}{12} \div \frac{2}{12} = 2$

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

22: $\frac{5}{9} \times \frac{2}{7} = \frac{10}{63}$

23: $\frac{4}{11} \times \frac{5}{11} = \frac{20}{121}$

24: $\frac{5}{9} \div \frac{5}{7} = \frac{7}{9}$

25: $\frac{4}{9} \times \frac{4}{6} = \frac{8}{27}$

fracmix_1to5_6to12_1to5_6to12

Question 6 [25 marks]

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

1: $\frac{4}{12} \div \frac{3}{11} = 1\frac{2}{9}$

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

3: $\frac{4}{10} \times \frac{2}{9} = \frac{4}{45}$

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

5: $\frac{3}{8} \times \frac{2}{11} = \frac{3}{44}$

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

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

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

9: $\frac{5}{11} \div \frac{1}{8} = 3\frac{7}{11}$

10: $\frac{5}{8} \times \frac{1}{8} = \frac{5}{64}$

11: $\frac{3}{9} - \frac{3}{12} = \frac{1}{12}$

12: $\frac{1}{6} + \frac{3}{10} = \frac{7}{15}$

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

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

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

16: $\frac{1}{7} \div \frac{5}{6} = \frac{6}{35}$

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

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

19: $\frac{5}{12} - \frac{1}{7} = \frac{23}{84}$

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

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

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

23: $\frac{2}{10} \div \frac{4}{9} = \frac{9}{20}$

24: $\frac{3}{10} \div \frac{4}{9} = \frac{27}{40}$

25: $\frac{5}{7} \times \frac{4}{6} = \frac{10}{21}$

fracmix_1to5_6to12_1to5_6to12

Question 7 [25 marks]

0: $\frac{4}{11} \div \frac{4}{9} = \frac{9}{11}$

1: $\frac{5}{9} \times \frac{5}{12} = \frac{25}{108}$

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

3: $\frac{5}{6} - \frac{5}{12} = \frac{5}{12}$

4: $\frac{1}{8} - \frac{4}{9} = \frac{-23}{72}$

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

6: $\frac{3}{10} \div \frac{2}{8} = 1\frac{1}{5}$

7: $\frac{2}{12} + \frac{1}{10} = \frac{4}{15}$

8: $\frac{1}{10} + \frac{4}{9} = \frac{49}{90}$

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

10: $\frac{4}{6} - \frac{1}{7} = \frac{11}{21}$

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

12: $\frac{5}{12} \div \frac{5}{11} = \frac{11}{12}$

13: $\frac{2}{8} + \frac{3}{7} = \frac{19}{28}$

14: $\frac{1}{11} \div \frac{1}{7} = \frac{7}{11}$

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

16: $\frac{5}{7} \div \frac{5}{9} = 1\frac{2}{7}$

17: $\frac{3}{11} - \frac{1}{9} = \frac{16}{99}$

18: $\frac{3}{6} - \frac{4}{9} = \frac{1}{18}$

19: $\frac{5}{11} \times \frac{2}{8} = \frac{5}{44}$

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

21: $\frac{3}{7} \div \frac{3}{7} = 1$

22: $\frac{2}{7} \times \frac{5}{6} = \frac{5}{21}$

23: $\frac{2}{8} \div \frac{4}{8} = \frac{1}{2}$

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

25: $\frac{1}{7} \times \frac{2}{6} = \frac{1}{21}$

fracmix_1to5_6to12_1to5_6to12

Question 8 [25 marks]

0: $\frac{4}{11} \times \frac{4}{10} = \frac{8}{55}$

1: $\frac{1}{7} \div \frac{5}{11} = \frac{11}{35}$

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

3: $\frac{4}{6} \div \frac{2}{7} = 2\frac{1}{3}$

4: $\frac{5}{8} \div \frac{2}{9} = 2\frac{13}{16}$

5: $\frac{4}{9} \div \frac{2}{11} = 2\frac{4}{9}$

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

7: $\frac{4}{9} \times \frac{3}{9} = \frac{4}{27}$

8: $\frac{2}{10} \times \frac{1}{9} = \frac{1}{45}$

9: $\frac{3}{9} - \frac{4}{11} = \frac{-1}{33}$

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

11: $\frac{4}{8} + \frac{2}{7} = \frac{11}{14}$

12: $\frac{4}{8} \times \frac{4}{7} = \frac{2}{7}$

13: $\frac{3}{8} - \frac{4}{6} = \frac{-7}{24}$

14: $\frac{5}{12} \div \frac{4}{8} = \frac{5}{6}$

15: $\frac{5}{8} + \frac{4}{12} = \frac{23}{24}$

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

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

18: $\frac{2}{12} \times \frac{4}{8} = \frac{1}{12}$

19: $\frac{3}{12} + \frac{2}{7} = \frac{15}{28}$

20: $\frac{4}{7} + \frac{3}{9} = \frac{19}{21}$

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

22: $\frac{5}{12} \div \frac{1}{9} = 3\frac{3}{4}$

23: $\frac{2}{12} \div \frac{4}{12} = \frac{1}{2}$

24: $\frac{3}{7} + \frac{2}{9} = \frac{41}{63}$

25: $\frac{3}{11} \times \frac{4}{8} = \frac{3}{22}$

fracmix_1to5_6to12_1to5_6to12

Question 9 [25 marks]

0: $\frac{5}{7} \div \frac{10}{3} = \frac{3}{14}$

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

2: $\frac{12}{11} - \frac{12}{12} = \frac{1}{11}$

3: $\frac{12}{8} - \frac{10}{9} = \frac{7}{18}$

4: $\frac{2}{11} + \frac{10}{6} = 1\frac{28}{33}$

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

6: $\frac{7}{9} \div \frac{11}{6} = \frac{14}{33}$

7: $\frac{2}{2} \div \frac{8}{7} = \frac{7}{8}$

8: $\frac{11}{7} - \frac{12}{3} = -2\frac{3}{7}$

9: $\frac{12}{7} + \frac{6}{2} = 4\frac{5}{7}$

10: $\frac{2}{8} - \frac{8}{10} = \frac{-11}{20}$

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

12: $\frac{9}{10} \times \frac{7}{5} = 1\frac{13}{50}$

13: $\frac{3}{2} \times \frac{8}{9} = 1\frac{1}{3}$

14: $\frac{4}{7} - \frac{9}{12} = \frac{-5}{28}$

15: $\frac{1}{11} - \frac{9}{3} = -2\frac{10}{11}$

16: $\frac{6}{12} \times \frac{8}{2} = 2$

17: $\frac{7}{11} \times \frac{5}{8} = \frac{35}{88}$

18: $\frac{7}{4} \times \frac{7}{9} = 1\frac{13}{36}$

19: $\frac{12}{7} \times \frac{4}{6} = 1\frac{1}{7}$

20: $\frac{12}{6} \div \frac{10}{2} = \frac{2}{5}$

21: $\frac{1}{6} \div \frac{10}{9} = \frac{3}{20}$

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

23: $\frac{5}{3} \div \frac{6}{10} = 2\frac{7}{9}$

24: $\frac{10}{3} - \frac{7}{10} = 2\frac{19}{30}$

25: $\frac{2}{12} \times \frac{11}{9} = \frac{11}{54}$

Question 10 [25 marks]

0: $\frac{5}{6} + \frac{8}{11} = 1\frac{37}{66}$

1: $\frac{12}{11} \div \frac{8}{7} = \frac{21}{22}$

2: $\frac{11}{12} - \frac{8}{2} = -3\frac{1}{12}$

3: $\frac{12}{5} - \frac{7}{12} = 1\frac{49}{60}$

4: $\frac{4}{12} \div \frac{8}{10} = \frac{5}{12}$

5: $\frac{8}{7} \div \frac{3}{9} = 3\frac{3}{7}$

6: $\frac{7}{3} \div \frac{11}{8} = 1\frac{23}{33}$

7: $\frac{5}{7} + \frac{6}{4} = 2\frac{3}{14}$

8: $\frac{4}{4} \div \frac{11}{11} = 1$

9: $\frac{8}{7} \times \frac{4}{3} = 1\frac{11}{21}$

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

11: $\frac{5}{8} \div \frac{9}{5} = \frac{25}{72}$

12: $\frac{3}{10} - \frac{3}{10} = 0$

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

14: $\frac{6}{8} \div \frac{1}{3} = 2\frac{1}{4}$

15: $\frac{8}{5} \times \frac{12}{7} = 2\frac{26}{35}$

16: $\frac{6}{11} - \frac{3}{7} = \frac{9}{77}$

17: $\frac{3}{5} - \frac{10}{3} = -2\frac{11}{15}$

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

19: $\frac{9}{11} - \frac{8}{10} = \frac{1}{55}$

20: $\frac{9}{2} + \frac{1}{7} = 4\frac{9}{14}$

21: $\frac{11}{8} \times \frac{2}{11} = \frac{1}{4}$

22: $\frac{11}{9} \div \frac{8}{10} = 1\frac{19}{36}$

23: $\frac{2}{3} \times \frac{10}{12} = \frac{5}{9}$

24: $\frac{4}{11} + \frac{1}{8} = \frac{43}{88}$

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

fracmix_1to12_2to12_1to12_2to12

fracmix_1to12_2to12_1to12_2to12

Question 11 [25 marks]

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

1: $\frac{8}{11} + \frac{11}{8} = 2\frac{9}{88}$

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

3: $\frac{11}{4} \times \frac{3}{4} = 2\frac{1}{16}$

4: $\frac{8}{9} \times \frac{4}{4} = \frac{8}{9}$

5: $\frac{6}{9} + \frac{2}{7} = \frac{20}{21}$

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

7: $\frac{5}{4} \times \frac{8}{3} = 3\frac{1}{3}$

8: $\frac{1}{3} - \frac{3}{10} = \frac{1}{30}$

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

10: $\frac{5}{12} - \frac{1}{8} = \frac{7}{24}$

11: $\frac{4}{3} \div \frac{9}{12} = 1\frac{7}{9}$

12: $\frac{6}{5} \times \frac{8}{6} = 1\frac{3}{5}$

13: $\frac{2}{3} \times \frac{5}{11} = \frac{10}{33}$

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

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

16: $\frac{7}{6} \div \frac{2}{4} = 2\frac{1}{3}$

17: $\frac{7}{7} - \frac{7}{12} = \frac{5}{12}$

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

19: $\frac{2}{7} + \frac{4}{9} = \frac{46}{63}$

20: $\frac{10}{12} - \frac{8}{8} = \frac{-1}{6}$

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

22: $\frac{4}{12} \div \frac{4}{6} = \frac{1}{2}$

23: $\frac{4}{5} \times \frac{11}{11} = \frac{4}{5}$

24: $\frac{8}{9} - \frac{9}{5} = \frac{-41}{45}$

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

Question 12 [25 marks]

0: $\frac{8}{10} \times \frac{12}{6} = 1\frac{3}{5}$

1: $\frac{5}{6} + \frac{9}{8} = 1\frac{23}{24}$

2: $\frac{7}{10} \times \frac{12}{9} = \frac{14}{15}$

3: $\frac{8}{10} - \frac{6}{4} = \frac{-7}{10}$

4: $\frac{10}{6} - \frac{7}{11} = 1\frac{1}{33}$

5: $\frac{1}{10} \div \frac{8}{10} = \frac{1}{8}$

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

7: $\frac{12}{5} \times \frac{9}{6} = 3\frac{3}{5}$

8: $\frac{8}{10} \times \frac{8}{3} = 2\frac{2}{15}$

9: $\frac{1}{12} \times \frac{4}{5} = \frac{1}{15}$

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

11: $\frac{8}{3} \div \frac{4}{3} = 2$

12: $\frac{10}{2} \div \frac{3}{4} = 6\frac{2}{3}$

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

14: $\frac{12}{9} + \frac{11}{12} = 2\frac{1}{4}$

15: $\frac{1}{4} - \frac{12}{8} = -1\frac{1}{4}$

16: $\frac{6}{2} - \frac{2}{6} = 2\frac{2}{3}$

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

18: $\frac{6}{8} \times \frac{2}{11} = \frac{3}{22}$

19: $\frac{8}{10} - \frac{7}{10} = \frac{1}{10}$

20: $\frac{11}{8} \div \frac{5}{12} = 3\frac{3}{10}$

21: $\frac{1}{5} - \frac{7}{5} = -1\frac{1}{5}$

22: $\frac{4}{5} - \frac{2}{3} = \frac{2}{15}$

23: $\frac{11}{9} + \frac{1}{10} = 1\frac{29}{90}$

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

25: $\frac{1}{9} - \frac{11}{4} = -2\frac{23}{36}$

fracmix_1to12_2to12_1to12_2to12

fracmix_1to12_2to12_1to12_2to12

Question 13 [25 marks]

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

1: $\frac{2}{7} \times \frac{7}{11} = \frac{2}{11}$

2: $\frac{2}{7} \times \frac{12}{3} = 1\frac{1}{7}$

3: $\frac{1}{8} - \frac{6}{11} = \frac{-37}{88}$

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

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

6: $\frac{4}{2} \div \frac{2}{5} = 5$

7: $\frac{6}{4} + \frac{2}{7} = 1\frac{11}{14}$

8: $\frac{10}{9} \times \frac{8}{10} = \frac{8}{9}$

9: $\frac{2}{7} \times \frac{11}{9} = \frac{22}{63}$

10: $\frac{10}{2} + \frac{3}{12} = 5\frac{1}{4}$

11: $\frac{11}{10} + \frac{5}{8} = 1\frac{29}{40}$

12: $\frac{7}{3} - \frac{12}{11} = 1\frac{8}{33}$

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

14: $\frac{7}{5} - \frac{11}{4} = -1\frac{7}{20}$

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

16: $\frac{2}{12} \div \frac{9}{8} = \frac{4}{27}$

17: $\frac{10}{12} \div \frac{8}{9} = \frac{15}{16}$

18: $\frac{9}{6} \times \frac{4}{6} = 1$

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

20: $\frac{9}{9} - \frac{9}{4} = -1\frac{1}{4}$

21: $\frac{8}{5} + \frac{7}{3} = 3\frac{14}{15}$

22: $\frac{3}{6} \times \frac{12}{7} = \frac{6}{7}$

23: $\frac{7}{8} \div \frac{11}{3} = \frac{21}{88}$

24: $\frac{9}{5} \times \frac{12}{3} = 7\frac{1}{5}$

25: $\frac{2}{8} + \frac{12}{7} = 1\frac{27}{28}$

fracmix_1to12_2to12_1to12_2to12

Question 14 [25 marks]

0: $\frac{9}{5} - \frac{8}{8} = \frac{4}{5}$

1: $\frac{6}{10} \times \frac{11}{2} = 3\frac{3}{10}$

2: $\frac{10}{11} + \frac{9}{6} = 2\frac{9}{22}$

3: $\frac{9}{3} \times \frac{7}{3} = 7$

4: $\frac{11}{7} - \frac{3}{7} = 1\frac{1}{7}$

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

6: $\frac{2}{7} \div \frac{12}{11} = \frac{11}{42}$

7: $\frac{8}{10} \times \frac{12}{5} = 1\frac{23}{25}$

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

9: $\frac{7}{11} \times \frac{7}{8} = \frac{49}{88}$

10: $\frac{4}{3} - \frac{9}{4} = \frac{-11}{12}$

11: $\frac{8}{10} - \frac{9}{8} = \frac{-13}{40}$

12: $\frac{6}{5} \times \frac{8}{7} = 1\frac{13}{35}$

13: $\frac{11}{3} - \frac{11}{8} = 2\frac{7}{24}$

14: $\frac{1}{12} - \frac{1}{5} = \frac{-7}{60}$

15: $\frac{10}{2} - \frac{10}{9} = 3\frac{8}{9}$

16: $\frac{9}{7} + \frac{1}{12} = 1\frac{31}{84}$

17: $\frac{5}{6} \div \frac{1}{7} = 5\frac{5}{6}$

18: $\frac{8}{6} + \frac{11}{10} = 2\frac{13}{30}$

19: $\frac{7}{10} + \frac{6}{12} = 1\frac{1}{5}$

20: $\frac{2}{11} - \frac{7}{8} = \frac{-61}{88}$

21: $\frac{9}{11} - \frac{1}{11} = \frac{8}{11}$

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

23: $\frac{3}{4} \div \frac{12}{6} = \frac{3}{8}$

24: $\frac{11}{12} \times \frac{8}{3} = 2\frac{4}{9}$

25: $\frac{9}{2} \times \frac{11}{10} = 4\frac{19}{20}$

fracmix_1to12_2to12_1to12_2to12

Question 15 [25 marks]

- 0: $\frac{8}{10} \times \frac{6}{8} = \frac{3}{5}$
 1: $\frac{11}{9} + \frac{11}{7} = 2\frac{50}{63}$
 2: $\frac{3}{3} + \frac{5}{9} = 1\frac{5}{9}$
 3: $\frac{1}{5} \div \frac{5}{3} = \frac{3}{25}$
 4: $\frac{4}{8} - \frac{12}{10} = \frac{-7}{10}$
 5: $\frac{12}{2} \div \frac{3}{11} = 22$
 6: $\frac{9}{3} - \frac{2}{12} = 2\frac{5}{6}$
 7: $\frac{7}{12} - \frac{6}{4} = \frac{-11}{12}$
 8: $\frac{12}{8} - \frac{4}{2} = \frac{-1}{2}$
 9: $\frac{3}{2} \div \frac{3}{5} = 2\frac{1}{2}$
 10: $\frac{12}{9} \div \frac{6}{2} = \frac{4}{9}$
 11: $\frac{2}{12} \div \frac{5}{8} = \frac{4}{15}$
 12: $\frac{7}{11} - \frac{11}{10} = \frac{-51}{110}$
 13: $\frac{3}{7} + \frac{2}{3} = 1\frac{2}{21}$
 14: $\frac{8}{12} - \frac{6}{3} = -1\frac{1}{3}$
 15: $\frac{11}{12} - \frac{3}{8} = \frac{13}{24}$
 16: $\frac{2}{8} \div \frac{11}{5} = \frac{5}{44}$
 17: $\frac{8}{12} + \frac{2}{12} = \frac{5}{6}$
 18: $\frac{12}{8} + \frac{10}{12} = 2\frac{1}{3}$
 19: $\frac{12}{8} \div \frac{10}{8} = 1\frac{1}{5}$
 20: $\frac{3}{9} - \frac{12}{7} = -1\frac{8}{21}$
 21: $\frac{12}{8} + \frac{9}{9} = 2\frac{1}{2}$
 22: $\frac{7}{12} - \frac{4}{8} = \frac{1}{12}$
 23: $\frac{6}{3} - \frac{1}{3} = 1\frac{2}{3}$
 24: $\frac{8}{10} \div \frac{3}{6} = 1\frac{3}{5}$
 25: $\frac{1}{10} - \frac{2}{10} = \frac{-1}{10}$

fracmix_1to12_2to12_1to12_2to12

Question 16 [25 marks]

- 0: $\frac{3}{8} \div \frac{4}{2} = \frac{3}{16}$
 1: $\frac{4}{5} \times \frac{12}{6} = 1\frac{3}{5}$
 2: $\frac{7}{10} \times \frac{6}{12} = \frac{7}{20}$
 3: $\frac{7}{12} \div \frac{7}{10} = \frac{5}{6}$
 4: $\frac{8}{12} + \frac{10}{6} = 2\frac{1}{3}$
 5: $\frac{2}{12} + \frac{3}{7} = \frac{25}{42}$
 6: $\frac{4}{10} \div \frac{6}{2} = \frac{2}{15}$
 7: $\frac{9}{8} - \frac{5}{10} = \frac{5}{8}$
 8: $\frac{4}{5} + \frac{7}{7} = 1\frac{4}{5}$
 9: $\frac{3}{2} - \frac{7}{7} = \frac{1}{2}$
 10: $\frac{12}{12} - \frac{8}{9} = \frac{1}{9}$
 11: $\frac{3}{12} \times \frac{4}{5} = \frac{1}{5}$
 12: $\frac{1}{10} \times \frac{8}{7} = \frac{4}{35}$
 13: $\frac{3}{5} + \frac{12}{11} = 1\frac{38}{55}$
 14: $\frac{9}{7} + \frac{6}{12} = 1\frac{11}{14}$
 15: $\frac{12}{3} + \frac{12}{6} = 6$
 16: $\frac{4}{11} \times \frac{10}{8} = \frac{5}{11}$
 17: $\frac{8}{8} + \frac{8}{10} = 1\frac{4}{5}$
 18: $\frac{6}{6} - \frac{1}{4} = \frac{3}{4}$
 19: $\frac{9}{2} + \frac{4}{10} = 4\frac{9}{10}$
 20: $\frac{2}{4} \div \frac{3}{10} = 1\frac{2}{3}$
 21: $\frac{12}{11} \div \frac{12}{6} = \frac{6}{11}$
 22: $\frac{1}{8} - \frac{11}{9} = -1\frac{7}{72}$
 23: $\frac{4}{11} \div \frac{12}{2} = \frac{2}{33}$
 24: $\frac{5}{3} \times \frac{3}{10} = \frac{1}{2}$
 25: $\frac{5}{9} \times \frac{7}{2} = 1\frac{17}{18}$

fracmix_1to12_2to12_1to12_2to12

Question 17 [25 marks]

0: $\frac{12}{11} + \frac{6}{15} = 1\frac{27}{55}$

1: $\frac{1}{11} + \frac{14}{10} = 1\frac{27}{55}$

2: $\frac{7}{14} \div \frac{17}{6} = \frac{3}{17}$

3: $\frac{11}{15} \times \frac{3}{18} = \frac{11}{90}$

4: $\frac{7}{13} \times \frac{19}{13} = \frac{133}{169}$

5: $\frac{10}{10} \div \frac{1}{17} = 17$

6: $\frac{7}{17} + \frac{13}{12} = 1\frac{101}{204}$

7: $\frac{3}{11} + \frac{19}{7} = 2\frac{76}{77}$

8: $\frac{4}{15} \div \frac{16}{2} = \frac{1}{30}$

9: $\frac{15}{9} \div \frac{9}{12} = 2\frac{2}{9}$

10: $\frac{13}{16} - \frac{9}{6} = \frac{-11}{16}$

11: $\frac{3}{14} \times \frac{18}{19} = \frac{27}{133}$

12: $\frac{14}{8} - \frac{14}{9} = \frac{7}{36}$

13: $\frac{11}{14} - \frac{17}{11} = \frac{-117}{154}$

14: $\frac{8}{15} + \frac{13}{13} = 1\frac{8}{15}$

15: $\frac{7}{4} \div \frac{7}{20} = 5$

16: $\frac{19}{6} - \frac{13}{4} = \frac{-1}{12}$

17: $\frac{13}{8} + \frac{3}{3} = 2\frac{5}{8}$

18: $\frac{9}{20} \div \frac{18}{16} = \frac{2}{5}$

19: $\frac{8}{6} \div \frac{18}{7} = \frac{14}{27}$

20: $\frac{15}{12} \times \frac{9}{4} = 2\frac{13}{16}$

21: $\frac{10}{14} \times \frac{6}{19} = \frac{30}{133}$

22: $\frac{6}{3} \times \frac{1}{13} = \frac{2}{13}$

23: $\frac{15}{3} - \frac{19}{15} = 3\frac{11}{15}$

24: $\frac{19}{4} \div \frac{15}{14} = 4\frac{13}{30}$

25: $\frac{4}{13} \times \frac{13}{5} = \frac{4}{5}$

Question 18 [25 marks]

0: $\frac{3}{19} + \frac{3}{20} = \frac{117}{380}$

1: $\frac{4}{9} + \frac{16}{15} = 1\frac{23}{45}$

2: $\frac{16}{15} \times \frac{18}{14} = 1\frac{13}{35}$

3: $\frac{10}{10} - \frac{8}{5} = \frac{-3}{5}$

4: $\frac{19}{9} \times \frac{9}{13} = 1\frac{6}{13}$

5: $\frac{2}{17} + \frac{17}{7} = 2\frac{65}{119}$

6: $\frac{2}{5} \times \frac{16}{11} = \frac{32}{55}$

7: $\frac{15}{16} \div \frac{12}{14} = 1\frac{3}{32}$

8: $\frac{18}{11} - \frac{20}{13} = \frac{14}{143}$

9: $\frac{11}{17} \div \frac{11}{15} = \frac{15}{17}$

10: $\frac{9}{17} - \frac{18}{4} = -3\frac{33}{34}$

11: $\frac{8}{3} \div \frac{3}{18} = 16$

12: $\frac{18}{19} \div \frac{7}{18} = 2\frac{58}{133}$

13: $\frac{13}{5} - \frac{12}{11} = 1\frac{28}{55}$

14: $\frac{2}{4} \times \frac{19}{10} = \frac{19}{20}$

15: $\frac{6}{15} - \frac{12}{7} = -1\frac{11}{35}$

16: $\frac{17}{19} - \frac{13}{16} = \frac{25}{304}$

17: $\frac{6}{18} + \frac{16}{9} = 2\frac{1}{9}$

18: $\frac{1}{18} \div \frac{7}{16} = \frac{8}{63}$

19: $\frac{1}{17} \div \frac{5}{13} = \frac{13}{85}$

20: $\frac{19}{20} \div \frac{11}{4} = \frac{19}{55}$

21: $\frac{1}{6} \times \frac{18}{2} = 1\frac{1}{2}$

22: $\frac{7}{17} + \frac{6}{20} = \frac{121}{170}$

23: $\frac{3}{12} \div \frac{11}{20} = \frac{5}{11}$

24: $\frac{18}{12} - \frac{18}{14} = \frac{3}{14}$

25: $\frac{19}{2} + \frac{4}{7} = 10\frac{1}{14}$

fracmix_1to20_2to20_1to20_2to20

fracmix_1to20_2to20_1to20_2to20

Question 19 [25 marks]

0: $\frac{10}{18} \div \frac{11}{13} = \frac{65}{99}$

1: $\frac{16}{18} - \frac{2}{20} = \frac{71}{90}$

2: $\frac{16}{9} \div \frac{3}{20} = 11\frac{23}{27}$

3: $\frac{1}{19} + \frac{9}{7} = 1\frac{45}{133}$

4: $\frac{6}{13} + \frac{2}{6} = \frac{31}{39}$

5: $\frac{18}{4} \times \frac{2}{10} = \frac{9}{10}$

6: $\frac{17}{14} \div \frac{16}{10} = \frac{85}{112}$

7: $\frac{6}{3} \div \frac{17}{8} = \frac{16}{17}$

8: $\frac{5}{13} \div \frac{14}{20} = \frac{50}{91}$

9: $\frac{12}{18} + \frac{7}{6} = 1\frac{5}{6}$

10: $\frac{16}{6} - \frac{14}{18} = 1\frac{8}{9}$

11: $\frac{5}{11} + \frac{6}{5} = 1\frac{36}{55}$

12: $\frac{4}{5} \div \frac{2}{13} = 5\frac{1}{5}$

13: $\frac{11}{6} \div \frac{20}{12} = 1\frac{1}{10}$

14: $\frac{20}{13} - \frac{15}{16} = \frac{125}{208}$

15: $\frac{20}{6} \times \frac{12}{13} = 3\frac{1}{13}$

16: $\frac{1}{4} \div \frac{7}{18} = \frac{9}{14}$

17: $\frac{17}{20} \times \frac{2}{19} = \frac{17}{190}$

18: $\frac{12}{13} + \frac{14}{16} = 1\frac{83}{104}$

19: $\frac{9}{13} - \frac{12}{8} = \frac{-21}{26}$

20: $\frac{2}{19} \div \frac{19}{8} = \frac{16}{361}$

21: $\frac{9}{11} \div \frac{9}{4} = \frac{4}{11}$

22: $\frac{20}{14} \times \frac{14}{17} = 1\frac{3}{17}$

23: $\frac{3}{3} + \frac{13}{19} = 1\frac{13}{19}$

24: $\frac{13}{5} - \frac{10}{12} = 1\frac{23}{30}$

25: $\frac{11}{20} + \frac{2}{8} = \frac{4}{5}$

*fracmix_1to20_2to20_1to20_2to20***Question 20** [25 marks]

0: $\frac{19}{12} + \frac{16}{7} = 3\frac{73}{84}$

1: $\frac{20}{6} + \frac{3}{11} = 3\frac{20}{33}$

2: $\frac{4}{10} - \frac{15}{14} = \frac{-47}{70}$

3: $\frac{6}{13} \times \frac{17}{8} = \frac{51}{52}$

4: $\frac{16}{5} \div \frac{14}{16} = 3\frac{23}{35}$

5: $\frac{13}{2} \div \frac{2}{2} = 6\frac{1}{2}$

6: $\frac{9}{19} + \frac{9}{8} = 1\frac{91}{152}$

7: $\frac{17}{10} \times \frac{16}{16} = 1\frac{7}{10}$

8: $\frac{17}{5} \div \frac{10}{16} = 5\frac{11}{25}$

9: $\frac{20}{16} \times \frac{8}{11} = \frac{10}{11}$

10: $\frac{9}{9} \times \frac{12}{11} = 1\frac{1}{11}$

11: $\frac{9}{12} \times \frac{1}{19} = \frac{3}{76}$

12: $\frac{5}{20} - \frac{14}{3} = -4\frac{5}{12}$

13: $\frac{10}{19} + \frac{10}{7} = 1\frac{127}{133}$

14: $\frac{13}{3} \div \frac{1}{13} = 56\frac{1}{3}$

15: $\frac{6}{20} \times \frac{16}{16} = \frac{3}{10}$

16: $\frac{20}{2} - \frac{18}{2} = 1$

17: $\frac{16}{11} \div \frac{17}{15} = 1\frac{53}{187}$

18: $\frac{5}{16} \div \frac{17}{14} = \frac{35}{136}$

19: $\frac{13}{5} + \frac{19}{10} = 4\frac{1}{2}$

20: $\frac{6}{7} \times \frac{13}{19} = \frac{78}{133}$

21: $\frac{12}{5} \times \frac{9}{8} = 2\frac{7}{10}$

22: $\frac{10}{9} \div \frac{16}{15} = 1\frac{1}{24}$

23: $\frac{11}{9} - \frac{15}{18} = \frac{7}{18}$

24: $\frac{3}{17} - \frac{15}{10} = -1\frac{11}{34}$

25: $\frac{3}{8} \div \frac{19}{2} = \frac{3}{76}$

fracmix_1to20_2to20_1to20_2to20

Question 21 [25 marks]

0: $\frac{20}{12} \div \frac{5}{6} = 2$

1: $\frac{19}{14} \times \frac{18}{3} = 8\frac{1}{7}$

2: $\frac{4}{15} \times \frac{12}{10} = \frac{8}{25}$

3: $\frac{13}{15} + \frac{18}{10} = 2\frac{2}{3}$

4: $\frac{20}{14} + \frac{9}{20} = 1\frac{123}{140}$

5: $\frac{1}{12} \times \frac{14}{14} = \frac{1}{12}$

6: $\frac{18}{7} + \frac{2}{11} = 2\frac{58}{77}$

7: $\frac{11}{15} - \frac{1}{16} = \frac{161}{240}$

8: $\frac{4}{3} - \frac{14}{18} = \frac{5}{9}$

9: $\frac{16}{12} + \frac{14}{3} = 6$

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

11: $\frac{19}{15} - \frac{4}{5} = \frac{7}{15}$

12: $\frac{5}{7} \div \frac{6}{14} = 1\frac{2}{3}$

13: $\frac{12}{19} - \frac{13}{12} = \frac{-103}{228}$

14: $\frac{6}{6} \times \frac{14}{17} = \frac{14}{17}$

15: $\frac{17}{17} \times \frac{13}{20} = \frac{13}{20}$

16: $\frac{13}{12} + \frac{10}{17} = 1\frac{137}{204}$

17: $\frac{14}{17} - \frac{6}{3} = -1\frac{3}{17}$

18: $\frac{6}{5} \div \frac{15}{12} = \frac{24}{25}$

19: $\frac{2}{3} - \frac{1}{8} = \frac{13}{24}$

20: $\frac{3}{3} - \frac{13}{16} = \frac{3}{16}$

21: $\frac{2}{9} \times \frac{10}{18} = \frac{10}{81}$

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

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

24: $\frac{8}{13} \div \frac{4}{9} = 1\frac{5}{13}$

25: $\frac{12}{8} + \frac{8}{15} = 2\frac{1}{30}$

fracmix_1to20_2to20_1to20_2to20

Question 22 [25 marks]

0: $\frac{12}{17} - \frac{11}{14} = \frac{-19}{238}$

1: $\frac{11}{4} - \frac{19}{20} = 1\frac{4}{5}$

2: $\frac{19}{16} \times \frac{12}{10} = 1\frac{17}{40}$

3: $\frac{12}{5} \times \frac{4}{6} = 1\frac{3}{5}$

4: $\frac{19}{14} \div \frac{12}{5} = \frac{95}{168}$

5: $\frac{19}{15} \times \frac{4}{4} = 1\frac{4}{15}$

6: $\frac{19}{16} + \frac{10}{10} = 2\frac{3}{16}$

7: $\frac{5}{12} + \frac{3}{11} = \frac{91}{132}$

8: $\frac{9}{6} - \frac{14}{12} = \frac{1}{3}$

9: $\frac{4}{17} - \frac{11}{13} = \frac{-135}{221}$

10: $\frac{19}{18} - \frac{9}{4} = -1\frac{7}{36}$

11: $\frac{19}{3} \div \frac{17}{13} = 4\frac{43}{51}$

12: $\frac{14}{14} - \frac{18}{17} = \frac{-1}{17}$

13: $\frac{19}{3} \times \frac{10}{12} = 5\frac{5}{18}$

14: $\frac{5}{19} - \frac{9}{13} = \frac{-106}{247}$

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

16: $\frac{5}{10} + \frac{16}{6} = 3\frac{1}{6}$

17: $\frac{10}{10} - \frac{13}{17} = \frac{4}{17}$

18: $\frac{11}{6} + \frac{14}{5} = 4\frac{19}{30}$

19: $\frac{12}{18} + \frac{7}{13} = 1\frac{8}{39}$

20: $\frac{11}{14} - \frac{14}{5} = -2\frac{1}{70}$

21: $\frac{18}{7} \div \frac{7}{3} = 1\frac{5}{49}$

22: $\frac{8}{9} - \frac{13}{18} = \frac{1}{6}$

23: $\frac{16}{19} + \frac{12}{18} = 1\frac{29}{57}$

24: $\frac{8}{9} \div \frac{18}{20} = \frac{80}{81}$

25: $\frac{18}{18} + \frac{10}{11} = 1\frac{10}{11}$

fracmix_1to20_2to20_1to20_2to20

Question 23 [25 marks]

0: $\frac{12}{20} \div \frac{20}{3} = \frac{9}{100}$

1: $\frac{16}{19} \div \frac{6}{3} = \frac{8}{19}$

2: $\frac{18}{8} + \frac{11}{8} = 3\frac{5}{8}$

3: $\frac{11}{19} \div \frac{7}{8} = \frac{88}{133}$

4: $\frac{13}{14} \times \frac{10}{6} = 1\frac{23}{42}$

5: $\frac{18}{9} \times \frac{8}{7} = 2\frac{2}{7}$

6: $\frac{16}{15} \div \frac{6}{6} = 1\frac{1}{15}$

7: $\frac{20}{6} \div \frac{1}{13} = 43\frac{1}{3}$

8: $\frac{7}{11} \times \frac{4}{9} = \frac{28}{99}$

9: $\frac{20}{16} + \frac{4}{10} = 1\frac{13}{20}$

10: $\frac{16}{17} \times \frac{20}{4} = 4\frac{12}{17}$

11: $\frac{14}{17} + \frac{11}{12} = 1\frac{151}{204}$

12: $\frac{17}{4} + \frac{5}{3} = 5\frac{11}{12}$

13: $\frac{17}{5} \div \frac{10}{3} = 1\frac{1}{50}$

14: $\frac{16}{20} - \frac{17}{8} = -1\frac{13}{40}$

15: $\frac{12}{15} + \frac{1}{2} = 1\frac{3}{10}$

16: $\frac{3}{18} \times \frac{10}{17} = \frac{5}{51}$

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

18: $\frac{6}{13} \div \frac{2}{13} = 3$

19: $\frac{16}{20} \times \frac{6}{16} = \frac{3}{10}$

20: $\frac{4}{19} \times \frac{9}{4} = \frac{9}{19}$

21: $\frac{1}{7} \div \frac{14}{10} = \frac{5}{49}$

22: $\frac{5}{2} - \frac{12}{14} = 1\frac{9}{14}$

23: $\frac{18}{11} \div \frac{1}{7} = 11\frac{5}{11}$

24: $\frac{8}{12} + \frac{13}{2} = 7\frac{1}{6}$

25: $\frac{16}{2} \times \frac{7}{10} = 5\frac{3}{5}$

fracmix_1to20_2to20_1to20_2to20

Question 24 [25 marks]

0: $\frac{10}{14} + \frac{8}{10} = 1\frac{18}{35}$

1: $\frac{13}{8} - \frac{11}{10} = \frac{21}{40}$

2: $\frac{4}{14} \div \frac{1}{6} = 1\frac{5}{7}$

3: $\frac{8}{14} + \frac{14}{17} = 1\frac{47}{119}$

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

5: $\frac{13}{10} + \frac{18}{19} = 2\frac{47}{190}$

6: $\frac{13}{9} - \frac{19}{3} = -4\frac{8}{9}$

7: $\frac{7}{18} + \frac{5}{7} = 1\frac{13}{126}$

8: $\frac{10}{5} - \frac{16}{3} = -3\frac{1}{3}$

9: $\frac{9}{3} \times \frac{6}{19} = \frac{18}{19}$

10: $\frac{4}{5} - \frac{2}{15} = \frac{2}{3}$

11: $\frac{16}{14} \times \frac{5}{7} = \frac{40}{49}$

12: $\frac{20}{4} \div \frac{20}{16} = 4$

13: $\frac{1}{7} \times \frac{12}{7} = \frac{12}{49}$

14: $\frac{20}{16} + \frac{13}{19} = 1\frac{71}{76}$

15: $\frac{1}{6} - \frac{3}{13} = \frac{-5}{78}$

16: $\frac{19}{13} \times \frac{4}{9} = \frac{76}{117}$

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

18: $\frac{17}{10} \times \frac{6}{11} = \frac{51}{55}$

19: $\frac{15}{10} - \frac{13}{17} = \frac{25}{34}$

20: $\frac{16}{5} \div \frac{2}{19} = 30\frac{2}{5}$

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

22: $\frac{16}{19} - \frac{4}{19} = \frac{12}{19}$

23: $\frac{17}{18} \div \frac{2}{17} = 8\frac{1}{36}$

24: $\frac{19}{5} \times \frac{18}{15} = 4\frac{14}{25}$

25: $\frac{11}{15} \times \frac{4}{8} = \frac{11}{30}$

fracmix_1to20_2to20_1to20_2to20

Question 25 [25 marks]

0: $\frac{6}{12} \div \frac{13}{10} = \frac{5}{13}$

1: $\frac{10}{11} \div \frac{10}{7} = \frac{7}{11}$

2: $\frac{20}{7} \times \frac{5}{6} = 2\frac{8}{21}$

3: $\frac{17}{13} - \frac{6}{16} = \frac{97}{104}$

4: $\frac{4}{14} \div \frac{3}{12} = 1\frac{1}{7}$

5: $\frac{20}{6} \div \frac{14}{18} = 4\frac{2}{7}$

6: $\frac{19}{17} \div \frac{1}{2} = 2\frac{4}{17}$

7: $\frac{2}{8} + \frac{13}{19} = \frac{71}{76}$

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

9: $\frac{9}{8} \times \frac{11}{19} = \frac{99}{152}$

10: $\frac{12}{17} + \frac{1}{5} = \frac{77}{85}$

11: $\frac{18}{14} \div \frac{18}{8} = \frac{4}{7}$

12: $\frac{18}{12} \times \frac{20}{15} = 2$

13: $\frac{6}{10} \div \frac{12}{6} = \frac{3}{10}$

14: $\frac{20}{6} - \frac{9}{19} = 2\frac{49}{57}$

15: $\frac{10}{5} - \frac{5}{13} = 1\frac{8}{13}$

16: $\frac{2}{2} \div \frac{2}{6} = 3$

17: $\frac{14}{5} - \frac{19}{17} = 1\frac{58}{85}$

18: $\frac{15}{10} \times \frac{6}{19} = \frac{9}{19}$

19: $\frac{16}{16} - \frac{6}{14} = \frac{4}{7}$

20: $\frac{19}{12} \times \frac{12}{8} = 2\frac{3}{8}$

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

22: $\frac{13}{8} \times \frac{19}{9} = 3\frac{31}{72}$

23: $\frac{8}{7} + \frac{8}{11} = 1\frac{67}{77}$

24: $\frac{10}{8} + \frac{9}{15} = 1\frac{17}{20}$

25: $\frac{4}{4} \div \frac{10}{8} = \frac{4}{5}$

fracmix_1to20_2to20_1to20_2to20

Question 26 [25 marks]

0: $\frac{15}{11} \div \frac{5}{11} = 3$

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

2: $\frac{3}{4} - \frac{17}{13} = \frac{-29}{52}$

3: $\frac{8}{18} + \frac{2}{6} = \frac{7}{9}$

4: $\frac{12}{18} \times \frac{14}{17} = \frac{28}{51}$

5: $\frac{14}{16} \div \frac{2}{7} = 3\frac{1}{16}$

6: $\frac{9}{12} \times \frac{8}{18} = \frac{1}{3}$

7: $\frac{10}{18} - \frac{14}{14} = \frac{-4}{9}$

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

9: $\frac{18}{12} + \frac{10}{2} = 6\frac{1}{2}$

10: $\frac{3}{2} \times \frac{7}{2} = 5\frac{1}{4}$

11: $\frac{11}{13} \times \frac{8}{18} = \frac{44}{117}$

12: $\frac{14}{2} \times \frac{10}{20} = 3\frac{1}{2}$

13: $\frac{9}{7} \times \frac{10}{14} = \frac{45}{49}$

14: $\frac{2}{2} - \frac{20}{12} = \frac{-2}{3}$

15: $\frac{6}{6} \times \frac{9}{7} = 1\frac{2}{7}$

16: $\frac{3}{17} \div \frac{1}{8} = 1\frac{7}{17}$

17: $\frac{10}{16} \times \frac{8}{17} = \frac{5}{17}$

18: $\frac{11}{7} + \frac{3}{20} = 1\frac{101}{140}$

19: $\frac{5}{15} \times \frac{14}{8} = \frac{7}{12}$

20: $\frac{13}{15} - \frac{19}{6} = -2\frac{3}{10}$

21: $\frac{13}{8} - \frac{2}{9} = 1\frac{29}{72}$

22: $\frac{17}{14} - \frac{19}{3} = -5\frac{5}{42}$

23: $\frac{20}{11} - \frac{17}{11} = \frac{3}{11}$

24: $\frac{16}{6} + \frac{5}{15} = 3$

25: $\frac{17}{9} \times \frac{2}{17} = \frac{2}{9}$

fracmix_1to20_2to20_1to20_2to20

Question 27 [25 marks]

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

1: $\frac{2}{6} - \frac{16}{2} = -7\frac{2}{3}$

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

3: $\frac{1}{11} - \frac{7}{12} = \frac{-65}{132}$

4: $\frac{16}{6} \div \frac{4}{7} = 4\frac{2}{3}$

5: $\frac{4}{6} - \frac{4}{20} = \frac{7}{15}$

6: $\frac{11}{13} \times \frac{13}{16} = \frac{11}{16}$

7: $\frac{20}{10} \times \frac{18}{3} = 12$

8: $\frac{5}{6} - \frac{19}{4} = -3\frac{11}{12}$

9: $\frac{20}{14} - \frac{4}{10} = 1\frac{1}{35}$

10: $\frac{13}{10} + \frac{11}{11} = 2\frac{3}{10}$

11: $\frac{2}{17} - \frac{15}{2} = -7\frac{13}{34}$

12: $\frac{6}{19} \div \frac{16}{14} = \frac{21}{76}$

13: $\frac{10}{9} \div \frac{4}{10} = 2\frac{7}{9}$

14: $\frac{17}{8} - \frac{16}{14} = \frac{55}{56}$

15: $\frac{15}{5} - \frac{10}{17} = 2\frac{7}{17}$

16: $\frac{13}{19} \times \frac{2}{20} = \frac{13}{190}$

17: $\frac{14}{15} + \frac{6}{12} = 1\frac{13}{30}$

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

19: $\frac{3}{16} \div \frac{4}{12} = \frac{9}{16}$

20: $\frac{2}{11} - \frac{1}{2} = \frac{-7}{22}$

21: $\frac{8}{16} - \frac{9}{19} = \frac{1}{38}$

22: $\frac{10}{17} \times \frac{14}{9} = \frac{140}{153}$

23: $\frac{14}{7} - \frac{20}{10} = 0$

24: $\frac{3}{13} \times \frac{10}{16} = \frac{15}{104}$

25: $\frac{17}{12} - \frac{15}{4} = -2\frac{1}{3}$

Question 28 [25 marks]

0: $\frac{18}{6} + \frac{12}{11} = 4\frac{1}{11}$

1: $\frac{7}{14} \div \frac{13}{13} = \frac{1}{2}$

2: $\frac{9}{6} + \frac{6}{19} = 1\frac{31}{38}$

3: $\frac{17}{8} \div \frac{8}{13} = 3\frac{29}{64}$

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

5: $\frac{9}{19} \div \frac{13}{12} = \frac{108}{247}$

6: $\frac{8}{13} \div \frac{2}{8} = 2\frac{6}{13}$

7: $\frac{15}{8} \div \frac{2}{3} = 2\frac{13}{16}$

8: $\frac{15}{5} + \frac{1}{18} = 3\frac{1}{18}$

9: $\frac{19}{20} \times \frac{14}{15} = \frac{133}{150}$

10: $\frac{16}{3} + \frac{12}{11} = 6\frac{14}{33}$

11: $\frac{1}{4} + \frac{1}{15} = \frac{19}{60}$

12: $\frac{18}{4} - \frac{11}{7} = 2\frac{13}{14}$

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

14: $\frac{2}{7} \times \frac{11}{16} = \frac{11}{56}$

15: $\frac{15}{20} - \frac{19}{7} = -1\frac{27}{28}$

16: $\frac{3}{4} \div \frac{12}{10} = \frac{5}{8}$

17: $\frac{15}{10} + \frac{19}{9} = 3\frac{11}{18}$

18: $\frac{18}{5} \times \frac{5}{18} = 1$

19: $\frac{7}{8} \div \frac{5}{13} = 2\frac{11}{40}$

20: $\frac{1}{5} - \frac{19}{16} = \frac{-79}{80}$

21: $\frac{20}{6} \times \frac{15}{6} = 8\frac{1}{3}$

22: $\frac{2}{13} \div \frac{9}{3} = \frac{2}{39}$

23: $\frac{5}{18} - \frac{3}{3} = \frac{-13}{18}$

24: $\frac{4}{7} \times \frac{19}{10} = 1\frac{3}{35}$

25: $\frac{20}{7} - \frac{8}{7} = 1\frac{5}{7}$

fracmix_1to20_2to20_1to20_2to20

fracmix_1to20_2to20_1to20_2to20

Question 29 [25 marks]

0: $\frac{18}{8} - \frac{20}{3} = -4\frac{5}{12}$

1: $\frac{13}{18} + \frac{17}{11} = 2\frac{53}{198}$

2: $\frac{17}{20} \times \frac{7}{17} = \frac{7}{20}$

3: $\frac{14}{15} - \frac{20}{7} = -1\frac{97}{105}$

4: $\frac{2}{2} \div \frac{11}{18} = 1\frac{7}{11}$

5: $\frac{20}{16} - \frac{3}{19} = 1\frac{7}{76}$

6: $\frac{4}{3} \div \frac{9}{11} = 1\frac{17}{27}$

7: $\frac{6}{18} - \frac{19}{13} = -1\frac{5}{39}$

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

9: $\frac{20}{12} - \frac{7}{5} = \frac{4}{15}$

10: $\frac{3}{18} \times \frac{15}{20} = \frac{1}{8}$

11: $\frac{20}{20} - \frac{2}{6} = \frac{2}{3}$

12: $\frac{14}{5} \times \frac{3}{8} = 1\frac{1}{20}$

13: $\frac{11}{12} \div \frac{17}{5} = \frac{55}{204}$

14: $\frac{13}{9} - \frac{4}{20} = 1\frac{11}{45}$

15: $\frac{3}{14} + \frac{18}{3} = 6\frac{3}{14}$

16: $\frac{16}{19} - \frac{15}{11} = \frac{-109}{209}$

17: $\frac{19}{6} + \frac{3}{17} = 3\frac{35}{102}$

18: $\frac{16}{19} + \frac{12}{17} = 1\frac{177}{323}$

19: $\frac{19}{10} \times \frac{6}{13} = \frac{57}{65}$

20: $\frac{15}{17} \div \frac{15}{2} = \frac{2}{17}$

21: $\frac{2}{12} \div \frac{18}{3} = \frac{1}{36}$

22: $\frac{20}{16} + \frac{3}{15} = 1\frac{9}{20}$

23: $\frac{17}{6} + \frac{7}{5} = 4\frac{7}{30}$

24: $\frac{19}{14} \div \frac{2}{3} = 2\frac{1}{28}$

25: $\frac{10}{10} - \frac{14}{17} = \frac{3}{17}$

fracmix_1to20_2to20_1to20_2to20

Question 30 [25 marks]

0: $\frac{13}{17} \div \frac{4}{8} = 1\frac{9}{17}$

1: $\frac{12}{17} - \frac{9}{17} = \frac{3}{17}$

2: $\frac{11}{13} + \frac{18}{6} = 3\frac{11}{13}$

3: $\frac{12}{10} + \frac{2}{11} = 1\frac{21}{55}$

4: $\frac{7}{12} + \frac{15}{12} = 1\frac{5}{6}$

5: $\frac{12}{12} \div \frac{14}{3} = \frac{3}{14}$

6: $\frac{20}{13} + \frac{18}{13} = 2\frac{12}{13}$

7: $\frac{14}{6} \div \frac{2}{4} = 4\frac{2}{3}$

8: $\frac{18}{4} + \frac{3}{19} = 4\frac{25}{38}$

9: $\frac{2}{12} - \frac{8}{12} = \frac{-1}{2}$

10: $\frac{9}{12} \div \frac{5}{5} = \frac{3}{4}$

11: $\frac{6}{16} + \frac{13}{12} = 1\frac{11}{24}$

12: $\frac{11}{9} + \frac{17}{8} = 3\frac{25}{72}$

13: $\frac{9}{13} - \frac{14}{10} = \frac{-46}{65}$

14: $\frac{19}{10} \times \frac{15}{20} = 1\frac{17}{40}$

15: $\frac{7}{14} \times \frac{17}{9} = \frac{17}{18}$

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

17: $\frac{20}{17} \div \frac{20}{17} = 1$

18: $\frac{9}{10} \times \frac{10}{18} = \frac{1}{2}$

19: $\frac{19}{2} \times \frac{4}{8} = 4\frac{3}{4}$

20: $\frac{15}{7} - \frac{6}{13} = 1\frac{62}{91}$

21: $\frac{3}{19} + \frac{11}{5} = 2\frac{34}{95}$

22: $\frac{13}{10} + \frac{18}{9} = 3\frac{3}{10}$

23: $\frac{14}{2} - \frac{9}{16} = 6\frac{7}{16}$

24: $\frac{19}{14} + \frac{6}{18} = 1\frac{29}{42}$

25: $\frac{1}{16} \div \frac{3}{6} = \frac{1}{8}$

fracmix_1to20_2to20_1to20_2to20

Question 31 [25 marks]

0: $\frac{18}{9} \div \frac{2}{8} = 8$

1: $\frac{10}{6} + \frac{6}{10} = 2\frac{4}{15}$

2: $\frac{7}{4} - \frac{13}{6} = \frac{-5}{12}$

3: $\frac{10}{14} - \frac{15}{20} = \frac{-1}{28}$

4: $\frac{17}{4} \div \frac{1}{15} = 63\frac{3}{4}$

5: $\frac{7}{17} + \frac{18}{19} = 1\frac{116}{323}$

6: $\frac{10}{14} - \frac{1}{8} = \frac{33}{56}$

7: $\frac{19}{5} \div \frac{13}{13} = 3\frac{4}{5}$

8: $\frac{15}{12} + \frac{1}{14} = 1\frac{9}{28}$

9: $\frac{5}{16} \div \frac{18}{18} = \frac{5}{16}$

10: $\frac{11}{4} \div \frac{15}{18} = 3\frac{3}{10}$

11: $\frac{19}{13} - \frac{2}{13} = 1\frac{4}{13}$

12: $\frac{6}{2} - \frac{15}{19} = 2\frac{4}{19}$

13: $\frac{11}{14} + \frac{14}{13} = 1\frac{157}{182}$

14: $\frac{16}{15} \div \frac{14}{14} = 1\frac{1}{15}$

15: $\frac{13}{17} \div \frac{15}{10} = \frac{26}{51}$

16: $\frac{12}{9} - \frac{3}{17} = 1\frac{8}{51}$

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

18: $\frac{16}{19} - \frac{16}{12} = \frac{-28}{57}$

19: $\frac{18}{9} \div \frac{12}{14} = 2\frac{1}{3}$

20: $\frac{10}{11} \times \frac{12}{12} = \frac{10}{11}$

21: $\frac{15}{9} + \frac{17}{15} = 2\frac{4}{5}$

22: $\frac{15}{8} + \frac{10}{9} = 2\frac{71}{72}$

23: $\frac{8}{12} - \frac{16}{13} = \frac{-22}{39}$

24: $\frac{20}{20} \times \frac{14}{4} = 3\frac{1}{2}$

25: $\frac{14}{5} - \frac{10}{17} = 2\frac{18}{85}$

Question 32 [25 marks]

0: $\frac{20}{9} - \frac{17}{4} = -2\frac{1}{36}$

1: $\frac{6}{12} \times \frac{2}{18} = \frac{1}{18}$

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

3: $\frac{18}{20} \div \frac{6}{3} = \frac{9}{20}$

4: $\frac{17}{2} + \frac{1}{19} = 8\frac{21}{38}$

5: $\frac{4}{9} - \frac{12}{18} = \frac{-2}{9}$

6: $\frac{7}{2} + \frac{18}{13} = 4\frac{23}{26}$

7: $\frac{5}{18} \times \frac{18}{9} = \frac{5}{9}$

8: $\frac{2}{13} + \frac{11}{7} = 1\frac{66}{91}$

9: $\frac{12}{17} \div \frac{4}{10} = 1\frac{13}{17}$

10: $\frac{19}{2} - \frac{17}{7} = 7\frac{1}{14}$

11: $\frac{3}{6} - \frac{7}{11} = \frac{-3}{22}$

12: $\frac{9}{2} - \frac{11}{17} = 3\frac{29}{34}$

13: $\frac{17}{12} \div \frac{17}{16} = 1\frac{1}{3}$

14: $\frac{15}{3} \div \frac{20}{14} = 3\frac{1}{2}$

15: $\frac{11}{17} \times \frac{7}{19} = \frac{77}{323}$

16: $\frac{9}{19} + \frac{12}{9} = 1\frac{46}{57}$

17: $\frac{2}{9} \times \frac{15}{3} = 1\frac{1}{9}$

18: $\frac{13}{14} + \frac{13}{8} = 2\frac{31}{56}$

19: $\frac{2}{20} \times \frac{7}{3} = \frac{7}{30}$

20: $\frac{17}{12} \div \frac{16}{11} = \frac{187}{192}$

21: $\frac{17}{9} + \frac{11}{17} = 2\frac{82}{153}$

22: $\frac{16}{19} \div \frac{5}{15} = 2\frac{10}{19}$

23: $\frac{8}{19} - \frac{9}{15} = \frac{-17}{95}$

24: $\frac{11}{20} - \frac{13}{17} = \frac{-73}{340}$

25: $\frac{20}{19} \div \frac{7}{17} = 2\frac{74}{133}$

fracmix_1to20_2to20_1to20_2to20

fracmix_1to20_2to20_1to20_2to20