Adding and Subtracting Fractions.

2/3 + 2/5

$\frac{2}{3}+\frac{2}{5} \rightarrow \frac{10}{15}+\frac{6}{15}=\frac{16}{15}=1\frac{1}{15}$

$LCD(3,5)=15$

$A: 1\frac{1}{15}$

¾ + 3/5

$\frac{3}{4}+\frac{3}{5} \rightarrow \frac{15}{20}+\frac{12}{20}=\frac{27}{20}=1\frac{7}{20}$

$LCD(4,5)=20$

$A: 1\frac{7}{20}$

5/6 + 2/7

$\frac{5}{6}+\frac{2}{7} \rightarrow \frac{35}{42}+\frac{12}{42}=\frac{47}{42}=1\frac{5}{42}$

$LCD(6,7)=42$

$A: 1\frac{5}{42}$

5/8 + 9/10

$\frac{5}{8}+\frac{9}{10} \rightarrow \frac{50}{80}+\frac{72}{80}=\frac{122}{80}=1\frac{42}{80}=1\frac{21}{40}$

LCD(8, 10) = 80

A: $1\frac{21}{40}$

3/14 + 7/8

$\frac{3}{14}+\frac{7}{8} \rightarrow \frac{12}{56}+\frac{49}{56}=\frac{61}{56}=1\frac{5}{56}$

LCD(8, 14) = 56

(56 ÷ 14 = 4, 56 ÷ 8 = 7)

A: $1\frac{5}{56}$

5/6 – ¾

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

LCD(4, 6) = 12

(12 ÷ 6 = 2, 12 ÷ 4 = 3)

A: $\frac{1}{12}$

7/8 – 2/3

$\frac{7}{8} - \frac{2}{3} = \frac{21}{24} - \frac{16}{24} = \frac{5}{24}$

LCD(3,8) = 24

A: $\frac{5}{24}$

7/9 – 1/3

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

LCD(3,9) = 9

A: $\frac{4}{9}$

11/14 – 3/8

$\frac{11}{14} - \frac{3}{8} \rightarrow \frac{44}{56} - \frac{21}{56} = \frac{23}{56}$

LCD(8,14) = 56

(56 ÷ 14 = 4, 56 ÷ 8 = 7)

A: $\frac{23}{56}$

17/19 – ¼

$\frac{17}{19} - \frac{1}{4} \rightarrow \frac{68}{76} - \frac{19}{76} = \frac{49}{76}$

LCD(4,19) = 76

(76 ÷ 19 = 4, 76 ÷ 4 = 19)

A: $\frac{49}{76}$

1 1/3 + 5 5/6

$1\frac{1}{3} + 5\frac{5}{6} \rightarrow \frac{4}{3} + \frac{35}{6} \rightarrow \frac{8}{6} + \frac{35}{6} = \frac{43}{6} = 7\frac{1}{6}$

LCD(3,6) = 6

A: $7\frac{1}{6}$

2 ¾ + 3 4/5

$2\frac{3}{4} + 3\frac{4}{5} \rightarrow \frac{11}{4} + \frac{19}{5} \rightarrow \frac{55}{20} + \frac{76}{20} = \frac{131}{20} = 6\frac{11}{20}$

LCD(4,5) = 20

A: $6\frac{11}{20}$

4 6/7 + 3 ½

$4\frac{6}{7} + 3\frac{1}{2} \rightarrow \frac{34}{7} + \frac{7}{2} \rightarrow \frac{68}{14} + \frac{49}{14} = \frac{117}{14} = 8\frac{5}{14}$

LCD(2,7)=14

A: $8\frac{5}{14}$

5 1/8 + 4 2/9

$5\frac{1}{8} + 4\frac{2}{9} \rightarrow \frac{41}{8} + \frac{38}{9} \rightarrow \frac{369}{72} + \frac{673}{72} = \frac{1042}{72}$

LCD(8,9)=72

$= 14\frac{34}{72}$

$= 14\frac{17}{36}$

A: $14\frac{17}{36}$

15. 1 2/3 + 6 7/8

$1\frac{2}{3} + 6\frac{7}{8} \rightarrow \frac{5}{3} + \frac{47}{8} \rightarrow \frac{40}{24} + \frac{151}{24} = \frac{191}{24} = 7\frac{23}{24}$

LCD(3,8)=24

A: $7\frac{23}{24}$

16. 7 2/3 - 5 ¼

$7\frac{2}{3} - 5\frac{1}{4} \rightarrow \frac{23}{3} - \frac{21}{4} \rightarrow \frac{92}{12} - \frac{63}{12} = \frac{29}{12} = 2\frac{5}{12}$

LCD(3,4) = 12

A: $2\frac{5}{12}$

17. 6 4/5 – 3 ½

$6\frac{4}{5} - 3\frac{1}{2} \rightarrow \frac{34}{5} - \frac{7}{2} \rightarrow \frac{68}{10} - \frac{35}{10} = \frac{33}{10} = 3\frac{3}{10}$

LCD(2,5) = 10

A: $3\frac{3}{10}$

18. 8 7/8 – 3 1/3

$8\frac{7}{8} - 3\frac{1}{3} \rightarrow \frac{71}{8} - \frac{10}{3} \rightarrow \frac{213}{24} - \frac{80}{24} = \frac{133}{24} = 5\frac{13}{24}$

LCD(3,8) = 24

A: $5\frac{13}{24}$

19. 8 7/8 – 5 8/9

$8\frac{7}{8} - 5\frac{8}{9} \rightarrow \frac{71}{8} - \frac{53}{9} \rightarrow \frac{639}{72} - \frac{424}{72} = \frac{215}{72}$

$LCD(8,9) = 72 \qquad = 2\frac{71}{72}$

20. 10 ½ - 9 ¾

$10\frac{1}{2} - 9\frac{3}{4} \rightarrow \frac{21}{2} - \frac{39}{4} \rightarrow \frac{42}{4} - \frac{39}{4} = \frac{3}{4}$

$LCD(2,4) = 4 \qquad A: \frac{3}{4}$