Adding and subtracting mixed numbers

Give the fractions the same denominator. Carry a whole, or take one, when you need to.

Name _____ Date _____

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

Adding and subtracting mixed numbers: answer key

Each answer in colour, with the working before it.

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

2. $4\frac{4}{5} + 1\frac{1}{2} = 4\frac{8}{10} + 1\frac{5}{10} = 5\frac{13}{10} = 6\frac{3}{10}$

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

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

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

6. $3\frac{7}{8} + 4\frac{2}{3} = 3\frac{21}{24} + 4\frac{16}{24} = 7\frac{37}{24} = 8\frac{13}{24}$

7. $4\frac{1}{3} + 3\frac{3}{5} = 4\frac{5}{15} + 3\frac{9}{15} = 7\frac{14}{15}$

8. $3\frac{2}{5} + 4\frac{1}{4} = 3\frac{8}{20} + 4\frac{5}{20} = 7\frac{13}{20}$

9. $6\frac{1}{3} - 4\frac{3}{5} = 6\frac{5}{15} - 4\frac{9}{15} = 5\frac{20}{15} - 4\frac{9}{15}$
   $= 1\frac{11}{15}$

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

11. $5\frac{2}{3} + 2\frac{1}{2} = 5\frac{4}{6} + 2\frac{3}{6} = 7\frac{7}{6} = 8\frac{1}{6}$

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

13. $6\frac{7}{8} - 5\frac{2}{3} = 6\frac{21}{24} - 5\frac{16}{24} = 1\frac{5}{24}$

14. $6\frac{1}{2} - 5\frac{5}{8} = 6\frac{4}{8} - 5\frac{5}{8} = 5\frac{12}{8} - 5\frac{5}{8}$
    $= \frac{7}{8}$

15. $3\frac{1}{3} + 1\frac{1}{5} = 3\frac{5}{15} + 1\frac{3}{15} = 4\frac{8}{15}$

16. $1\frac{3}{8} + 3\frac{1}{2} = 1\frac{3}{8} + 3\frac{4}{8} = 4\frac{7}{8}$

17. $1\frac{1}{3} + 2\frac{7}{8} = 1\frac{8}{24} + 2\frac{21}{24} = 3\frac{29}{24} = 4\frac{5}{24}$

18. $7\frac{1}{4} - 1\frac{3}{5} = 7\frac{5}{20} - 1\frac{12}{20} = 6\frac{25}{20} - 1\frac{12}{20}$
    $= 5\frac{13}{20}$

19. $1\frac{3}{4} + 4\frac{2}{3} = 1\frac{9}{12} + 4\frac{8}{12} = 5\frac{17}{12} = 6\frac{5}{12}$

20. $3\frac{3}{8} - 2\frac{1}{2} = 3\frac{3}{8} - 2\frac{4}{8} = 2\frac{11}{8} - 2\frac{4}{8} = \frac{7}{8}$