More Adding and Subtracting Mixed Numbers

In **1** through **16**, simplify each expression.

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

2. $9\frac{1}{6} - 3\frac{2}{9}$

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

4. $6\frac{4}{5} + 5\frac{3}{10}$

5. $\left(3\frac{1}{2} + 8\frac{2}{3}\right) - 3\frac{5}{6}$

6. $\left(14\frac{1}{6} - 4\frac{5}{9}\right) + 1\frac{7}{18}$

7. $7\frac{7}{12} + \left(3\frac{1}{2} + 1\frac{7}{8}\right)$

8. $\left(10\frac{1}{4} - 5\frac{5}{8}\right) - 1\frac{3}{8}$

9. $100\frac{3}{10} - 60\frac{2}{3} - 5\frac{2}{15}$

10. $25\frac{3}{8} - \left(10\frac{4}{5} + 5\frac{7}{8}\right)$

11. $\left(2\frac{2}{3} + 4\frac{5}{6}\right) + 3\frac{3}{8}$

12. $\left(30\frac{1}{9} + 4\frac{1}{3}\right) - 19\frac{5}{6}$

13. $7\frac{2}{3} + \left(5\frac{1}{6} - 1\frac{5}{9}\right)$

14. Which shows three mixed numbers that have sum of 10?

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

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

B $3\frac{1}{3} + 3\frac{1}{4} + 3\frac{5}{12}$

D $5\frac{1}{4} + 1\frac{7}{8} + 3\frac{7}{8}$

15. What is a reasonable estimate for the sum of $4\frac{1}{8} + 3\frac{2}{3} + 5\frac{1}{2}$?

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16. Veronica is buying cubed cheese from Mr. Sand's deli. She asks for $1\frac{3}{4}$ pounds. When Mr. Sand places some cheese in a container and weighs it, the scale shows $1\frac{1}{4}$ pounds. The container weighs $\frac{1}{16}$ pound. How many more pounds of cheese would Mr. Sand need to add to the scale to get the amount that Veronica asked for? Explain how you solved the problem.

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