Varied Fluency
Mixed Addition and Subtraction

Developing

1a. $4\frac{1}{4} = \frac{17}{4}$; $1\frac{1}{2} = \frac{3}{2}$

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

2a. $1\frac{1}{4}$

3a. $\frac{3}{2} + \frac{3}{4} + \frac{5}{6} = 3\frac{1}{12}$;

$\frac{14}{12} - \frac{1}{2} - \frac{1}{6} = \frac{6}{12}$

4a. Terri's fraction is $4\frac{3}{8}$.

Expected

5a. $1\frac{3}{5} = \frac{8}{5}$; $2\frac{2}{6} = \frac{14}{6}$

$1\frac{3}{5} + 2\frac{2}{6} = 3\frac{28}{30}$

6a. $1\frac{5}{28}$

7a. $\frac{8}{3} + \frac{6}{4} + \frac{2}{6} = 4\frac{6}{12}$;

$\frac{4}{3} - \frac{1}{5} - \frac{4}{15} = \frac{13}{15}$

8a. Laura's fraction is $2\frac{7}{24}$.

Greater Depth

9a. $3\frac{6}{7} = \frac{27}{7}$; $1\frac{2}{3} = \frac{5}{3}$; $2\frac{3}{4} = \frac{11}{4}$

$3\frac{6}{7} + 1\frac{2}{3} + 2\frac{3}{4} = 8\frac{23}{84}$

10a. $1\frac{27}{28}$

11a. $\frac{9}{2} + \frac{12}{3} + \frac{9}{7} = 9\frac{11}{14}$;

$\frac{13}{7} - \frac{1}{2} - \frac{4}{6} = \frac{29}{42}$

12a. Becki's fraction is $3\frac{4}{15}$.

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1b. $2\frac{2}{3} = \frac{8}{3}$; $1\frac{5}{9} = \frac{14}{9}$

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

2b. $10\frac{3}{6}$

3b. $\frac{4}{5} + \frac{9}{10} + \frac{2}{5} = 2\frac{1}{10}$;

$\frac{13}{6} - \frac{2}{3} - \frac{2}{2} = \frac{3}{6}$

4b. Bill's fraction is $5\frac{12}{15}$.

Expected

5b. $2\frac{3}{8} = \frac{19}{8}$; $1\frac{2}{3} = \frac{5}{3}$

$2\frac{3}{8} - 1\frac{2}{3} = \frac{17}{24}$

6b. $10\frac{24}{45}$

7b. $\frac{8}{9} - \frac{3}{4} - \frac{1}{12} = \frac{1}{18}$;

$\frac{7}{10} + \frac{10}{4} + \frac{3}{5} = 3\frac{16}{20}$

8b. Ali's fraction is $8\frac{18}{60}$.

Greater Depth

9b. $2\frac{4}{6} = \frac{16}{6}$; $1\frac{2}{5} = \frac{7}{5}$; $1\frac{1}{8} = \frac{9}{8}$

$2\frac{4}{6} - 1\frac{2}{5} - 1\frac{2}{5} = \frac{17}{120}$

10b. $11\frac{7}{10}$

11b. $\frac{10}{3} + \frac{23}{5} + \frac{33}{6} = 13\frac{13}{30}$;

$\frac{26}{9} - \frac{5}{4} - \frac{8}{6} = \frac{11}{36}$

12b. Toby's fraction is $15\frac{11}{21}$.

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