Name _____ Date _____

1. Solve.

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

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

c. $\frac{2}{6} + 3\frac{4}{6}$

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

$= \frac{6}{6} + 3$

$= 4$

d. $\frac{5}{8} + 7\frac{3}{8} = \frac{5}{8} + 7 + \frac{3}{8}$

$= \frac{8}{8} + 7$

$= 8$

2. Complete the number sentences.

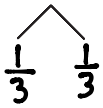
a. $3\frac{5}{6} + \frac{1}{6} = 4$ $3\frac{5}{6} \xrightarrow{+\frac{1}{6}} 4$	b. $5\frac{3}{7} + \frac{4}{7} = 6$ $5\frac{3}{7} \xrightarrow{+\frac{4}{7}} 6$
c. $5 = 4\frac{1}{8} + \frac{7}{8}$ $4\frac{1}{8} \xrightarrow{+\frac{7}{8}} 5$	d. $15 = 14\frac{4}{12} + \frac{8}{12}$ $14\frac{4}{12} \xrightarrow{+\frac{8}{12}} 15$

3. Draw a number bond and the arrow way to show how to make one. Solve.

a. $2\frac{4}{5} + \frac{2}{5}$

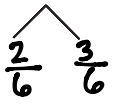
$2\frac{4}{5} \xrightarrow{+\frac{1}{5}} 3 \xrightarrow{+\frac{1}{5}} 3\frac{1}{5}$

b. $3\frac{2}{3} + \frac{2}{3}$



$3\frac{2}{3} \xrightarrow{+\frac{1}{3}} 4 \xrightarrow{+\frac{1}{3}} 4\frac{1}{3}$

c. $4\frac{4}{6} + \frac{5}{6}$



$4\frac{4}{6} \xrightarrow{+\frac{2}{6}} 5 \xrightarrow{+\frac{3}{6}} 5\frac{3}{6}$

While each problem only has one correct answer, there are a variety of ways to solve each problem. We will show several of those methods.

4. Solve.

a. $2\frac{3}{5} + \frac{3}{5}$

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

$1\ \frac{1}{5}$

b. $3\frac{6}{8} + \frac{4}{8}$

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

$\frac{2}{8}\ \ \frac{2}{8}$

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

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

$\frac{2}{6}\ \ \frac{1}{6}$

d. $\frac{7}{10} + 6\frac{6}{10}$

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

$\frac{3}{10}\ \ \frac{4}{10}$

e. $\frac{5}{10} + 8\frac{9}{10}$

$= \frac{5}{10} + 8\frac{9}{10} = \frac{4}{10} + 9 = 9\frac{4}{10}$

$\frac{4}{10}\ \ \frac{1}{10}$

f. $7\frac{8}{12} + \frac{11}{12}$

$7\frac{8}{12} + \frac{11}{12} = 7\frac{19}{12} = 8\frac{7}{12}$

$\frac{12}{12}\ \ \frac{7}{12}$

g. $3\frac{90}{100} + \frac{58}{100}$

$3\frac{90}{100} + \frac{58}{100} = 4 + \frac{48}{100} = 4\frac{48}{100}$

$\frac{10}{100}\ \ \frac{48}{100}$

h. $\frac{60}{100} + 14\frac{79}{100}$

$\frac{60}{100} + 14\frac{79}{100} = 1 + 14 + \frac{39}{100} = 15\frac{39}{100}$

$\frac{40}{100}\ \ \frac{39}{100}$

5. To solve $4\frac{8}{10} + \frac{3}{10}$, Carmen thought, "$4\frac{8}{10} + \frac{2}{10} = 5$, and $5 + \frac{1}{10} = 5\frac{1}{10}$."
Benny thought, "$4\frac{8}{10} + \frac{3}{10} = 4\frac{11}{10} = 4 + \frac{10}{10} + \frac{1}{10} = 5\frac{1}{10}$." Explain why Carmen and Benny are both right.

They are both right because they both decomposed the fractions in order to make a whole. They just chose different times to decompose.