

Name _____

Date _____

1. Draw a tape diagram to represent each addend. Decompose one of the tape diagrams to make like units. Then, write a complete number sentence. Use a number bond to write each sum as a mixed number.

a. $\frac{7}{8} + \frac{1}{4}$

b. $\frac{4}{8} + \frac{2}{4}$

c. $\frac{4}{6} + \frac{1}{2}$

d. $\frac{3}{5} + \frac{8}{10}$

2. Draw a number line to model the addition. Then, write a complete number sentence. Use a number bond to write each sum as a mixed number.

a. $\frac{1}{2} + \frac{5}{8}$

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

c. $\frac{4}{10} + \frac{4}{5}$

d. $\frac{1}{3} + \frac{5}{6}$

3. Solve. Write the sum as a mixed number. Draw a model if needed.

a. $\frac{1}{2} + \frac{6}{8}$

b. $\frac{7}{8} + \frac{3}{4}$

c. $\frac{5}{6} + \frac{1}{3}$

d. $\frac{9}{10} + \frac{2}{5}$

e. $\frac{4}{12} + \frac{3}{4}$

f. $\frac{1}{2} + \frac{5}{6}$

g. $\frac{3}{12} + \frac{5}{6}$

h. $\frac{7}{10} + \frac{4}{5}$

Answer Key

1.
 - a. Tape diagrams represent $\frac{7}{8}$ and $\frac{2}{8}$; $\frac{7}{8} + \frac{2}{8} = \frac{9}{8}$; number bond shows $\frac{9}{8}$ as $\frac{8}{8}$ and $\frac{1}{8}$; $1\frac{1}{8}$
 - b. Tape diagrams represent $\frac{4}{8}$ and $\frac{4}{8}$; $\frac{4}{8} + \frac{4}{8} = \frac{8}{8}$; 1
 - c. Tape diagrams represent $\frac{4}{6}$ and $\frac{3}{6}$; $\frac{4}{6} + \frac{3}{6} = \frac{7}{6}$; number bond shows $\frac{7}{6}$ as $\frac{6}{6}$ and $\frac{1}{6}$; $1\frac{1}{6}$
 - d. Tape diagrams represent $\frac{6}{10}$ and $\frac{8}{10}$; $\frac{6}{10} + \frac{8}{10} = \frac{14}{10}$; number bond shows $\frac{14}{10}$ as $\frac{10}{10}$ and $\frac{4}{10}$; $1\frac{4}{10}$
2.
 - a. Number line models $\frac{4}{8} + \frac{5}{8}$; $\frac{4}{8} + \frac{5}{8} = \frac{9}{8}$; number bond shows $\frac{9}{8}$ as $\frac{8}{8}$ and $\frac{1}{8}$; $1\frac{1}{8}$
 - b. Number line models $\frac{6}{8} + \frac{3}{8}$; $\frac{6}{8} + \frac{3}{8} = \frac{9}{8}$; number bond shows $\frac{9}{8}$ as $\frac{8}{8}$ and $\frac{1}{8}$; $1\frac{1}{8}$
 - c. Number line models $\frac{4}{10} + \frac{8}{10}$; $\frac{4}{10} + \frac{8}{10} = \frac{12}{10}$; number bond shows $\frac{12}{10}$ as $\frac{10}{10}$ and $\frac{2}{10}$; $1\frac{2}{10}$
 - d. Number line models $\frac{2}{6} + \frac{5}{6}$; $\frac{2}{6} + \frac{5}{6} = \frac{7}{6}$; number bond shows $\frac{7}{6}$ as $\frac{6}{6}$ and $\frac{1}{6}$; $1\frac{1}{6}$
3.
 - a. $\frac{4}{8} + \frac{6}{8} = \frac{10}{8} = 1\frac{2}{8}$
 - b. $\frac{7}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$
 - c. $\frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6}$
 - d. $\frac{9}{10} + \frac{4}{10} = \frac{13}{10} = 1\frac{3}{10}$
 - e. $\frac{4}{12} + \frac{9}{12} = \frac{13}{12} = 1\frac{1}{12}$
 - f. $\frac{3}{6} + \frac{5}{6} = \frac{8}{6} = 1\frac{2}{6}$
 - g. $\frac{3}{12} + \frac{10}{12} = \frac{13}{12} = 1\frac{1}{12}$
 - h. $\frac{7}{10} + \frac{8}{10} = \frac{15}{10} = 1\frac{5}{10}$