Lesson 17

Problem Set

1. a. $\frac{8}{5}+\frac{2}{5}=\frac{10}{5}$, $\frac{2}{5}+\frac{8}{5}=\frac{10}{5}$, $\frac{10}{5}-\frac{2}{5}=\frac{8}{5}$, $\frac{10}{5}-\frac{8}{5}=\frac{2}{5}$

   b. $\frac{7}{8}+\frac{8}{8}=\frac{15}{8}$, $\frac{8}{8}+\frac{7}{8}=\frac{15}{8}$, $\frac{15}{8}-\frac{8}{8}=\frac{7}{8}$, $\frac{15}{8}-\frac{7}{8}=\frac{8}{8}$

2. a. Answer provided

   b. $\frac{2}{10}$; number line models solution; solved by counting up and subtracting

   c. $\frac{2}{5}$; number line models solution; solved by counting up and subtracting

   d. $\frac{3}{8}$; number line models solution; solved by counting up and subtracting

   e. $\frac{5}{10}$; number line models solution; solved by counting up and subtracting

   f. $\frac{3}{5}$; number line models solution; solved by counting up and subtracting

3. a. Answer provided

   b. $\frac{6}{6}+\frac{3}{6}=\frac{9}{6}$, $\frac{9}{6}-\frac{4}{6}=\frac{5}{6}$; $\frac{6}{6}-\frac{4}{6}=\frac{2}{6}$, $\frac{2}{6}+\frac{3}{6}=\frac{5}{6}$; number bond shows $1\frac{3}{6}$ is $\frac{6}{6}$ and $\frac{3}{6}$

   c. $\frac{8}{8}+\frac{6}{8}=\frac{14}{8}$, $\frac{14}{8}-\frac{7}{8}=\frac{7}{8}$; $\frac{8}{8}-\frac{7}{8}=\frac{1}{8}$, $\frac{1}{8}+\frac{6}{8}=\frac{7}{8}$; number bond shows $1\frac{6}{8}$ is $\frac{8}{8}$ and $\frac{6}{8}$

   d. $\frac{10}{10}+\frac{1}{10}=\frac{11}{10}$, $\frac{11}{10}-\frac{7}{10}=\frac{4}{10}$; $\frac{10}{10}-\frac{7}{10}=\frac{3}{10}$, $\frac{3}{10}+\frac{1}{10}=\frac{4}{10}$; number bond shows $1\frac{1}{10}$ is $\frac{10}{10}$ and $\frac{1}{10}$

   e. $\frac{12}{12}+\frac{3}{12}=\frac{15}{12}$, $\frac{15}{12}-\frac{6}{12}=\frac{9}{12}$; $\frac{12}{12}-\frac{6}{12}=\frac{6}{12}$, $\frac{6}{12}+\frac{3}{12}=\frac{9}{12}$; number bond shows $1\frac{3}{12}$ is $\frac{12}{12}$ and $\frac{3}{12}$

Exit Ticket

1. $\frac{3}{5}$; number line models solution; solved by counting up and subtracting

2. $\frac{7}{7}+\frac{2}{7}=\frac{9}{7}$, $\frac{9}{7}-\frac{5}{7}=\frac{4}{7}$; $\frac{7}{7}-\frac{5}{7}=\frac{2}{7}$, $\frac{2}{7}+\frac{2}{7}=\frac{4}{7}$; number bond shows $1\frac{2}{7}$ is $\frac{7}{7}$ and $\frac{2}{7}$

Homework

1. a. $\frac{5}{6}+\frac{4}{6}=\frac{9}{6}$, $\frac{4}{6}+\frac{5}{6}=\frac{9}{6}$, $\frac{9}{6}-\frac{5}{6}=\frac{4}{6}$, $\frac{9}{6}-\frac{4}{6}=\frac{5}{6}$

   b. $\frac{5}{9}+\frac{8}{9}=\frac{13}{9}$, $\frac{8}{9}+\frac{5}{9}=\frac{13}{9}$, $\frac{13}{9}-\frac{5}{9}=\frac{8}{9}$, $\frac{13}{9}-\frac{8}{9}=\frac{5}{9}$

2. a. $\frac{3}{8}$; number line models solution; solved by counting up and subtracting

   b. $\frac{3}{5}$; number line models solution; solved by counting up and subtracting

   c. $\frac{4}{6}$; number line models solution; solved by counting up and subtracting

   d. $\frac{3}{4}$; number line models solution; solved by counting up and subtracting

   e. $\frac{2}{3}$; number line models solution; solved by counting up and subtracting

   f. $\frac{4}{5}$; Number line models solution; solved by counting up and subtracting

3. a. Answer provided

   b. $\frac{8}{8}+\frac{3}{8}=\frac{11}{8}$, $\frac{11}{8}-\frac{7}{8}=\frac{4}{8}$; $\frac{8}{8}-\frac{7}{8}=\frac{1}{8}$, $\frac{1}{8}+\frac{3}{8}=\frac{4}{8}$; number bond shows $1\frac{3}{8}$ is $\frac{8}{8}$ and $\frac{3}{8}$

   c. $\frac{4}{4}+\frac{1}{4}=\frac{5}{4}$, $\frac{5}{4}-\frac{3}{4}=\frac{2}{4}$; $\frac{4}{4}-\frac{3}{4}=\frac{1}{4}$, $\frac{1}{4}+\frac{1}{4}=\frac{2}{4}$; number bond shows $1\frac{1}{4}$ is $\frac{4}{4}$ and $\frac{1}{4}$

   d. $\frac{7}{7}+\frac{2}{7}=\frac{9}{7}$, $\frac{9}{7}-\frac{5}{7}=\frac{4}{7}$; $\frac{7}{7}-\frac{5}{7}=\frac{2}{7}$, $\frac{2}{7}+\frac{2}{7}=\frac{4}{7}$; number bond shows $1\frac{2}{7}$ is $\frac{7}{7}$ and $\frac{2}{7}$

   e. $\frac{10}{10}+\frac{3}{10}=\frac{13}{10}$, $\frac{13}{10}-\frac{7}{10}=\frac{6}{10}$; $\frac{10}{10}-\frac{7}{10}=\frac{3}{10}$, $\frac{3}{10}+\frac{3}{10}=\frac{6}{10}$; number bond shows $1\frac{3}{10}$ is $\frac{10}{10}$ and $\frac{3}{10}$