

Name _____

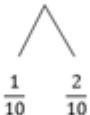
Date _____

1. Show one way to solve each problem. Express sums and differences as a mixed number when possible. Use number bonds when it helps you. Part (a) is partially completed.

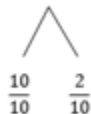
<p>a. $\frac{1}{3} + \frac{2}{3} + \frac{1}{3} =$</p> <p>$= \frac{3}{3} + \frac{1}{3} = 1 + \frac{1}{3}$</p> <p>$= 1\frac{1}{3}$</p>	<p>b. $\frac{5}{8} + \frac{5}{8} + \frac{3}{8} =$</p> <p>$= \frac{5}{8} + \frac{8}{8}$</p> <p>$= \frac{5}{8} + 1$</p> <p>$= 1\frac{5}{8}$</p>	<p>c. $\frac{4}{6} + \frac{6}{6} + \frac{1}{6} =$</p> <p>$= \frac{5}{6} + \frac{6}{6}$</p> <p>$= \frac{5}{6} + 1$</p> <p>$= 1\frac{5}{6}$</p>
<p>d. $1\frac{2}{12} - \frac{2}{12} - \frac{1}{12} =$</p> <p>$= 1 - \frac{1}{12}$</p> <p>$= \frac{12}{12} - \frac{1}{12}$</p> <p>$= \frac{11}{12}$</p>	<p>e. $\frac{5}{7} + \frac{1}{7} + \frac{4}{7} =$</p> <p>$= \frac{6}{7} + \frac{4}{7}$</p> <p>$= \frac{10}{7}$</p> <p>$= \frac{7}{7} + \frac{3}{7}$</p> <p>$= 1\frac{3}{7}$</p>	<p>f. $\frac{4}{10} + \frac{7}{10} + \frac{9}{10} =$</p> <p>$= \frac{11}{10} + \frac{9}{10}$</p> <p>$= \frac{20}{10}$</p> <p>$= \frac{10}{10} + \frac{10}{10}$</p> <p>$= 2$</p>
<p>g. $1 - \frac{3}{10} - \frac{1}{10} =$</p> <p>$= 1 - \frac{4}{10}$</p> <p>$= \frac{10}{10} - \frac{4}{10}$</p> <p>$= \frac{6}{10}$</p>	<p>h. $1\frac{3}{5} - \frac{4}{5} - \frac{1}{5} =$</p> <p>$= \frac{8}{5} - \frac{4}{5} - \frac{1}{5}$</p> <p>$= \frac{4}{5} - \frac{1}{5}$</p> <p>$= \frac{3}{5}$</p>	<p>i. $\frac{10}{15} + \frac{7}{15} + \frac{12}{15} + \frac{1}{15} =$</p> <p>$= \frac{17}{15} + \frac{12}{15}$</p> <p>$= \frac{29}{15}$</p> <p>$= \frac{15}{15} + \frac{14}{15}$</p> <p>$= 1 + 1 = 2$</p>

2. Bonnie used two different strategies to solve $\frac{5}{10} + \frac{4}{10} + \frac{3}{10}$.

Bonnie's First Strategy

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


Bonnie's Second Strategy

$$\frac{5}{10} + \frac{4}{10} + \frac{3}{10} = \frac{12}{10} = 1 + \frac{2}{10} = 1\frac{2}{10}$$


Which strategy do you like best? Why?

Answers will vary

3. You gave one solution for each part of Problem 1. Now, for each problem indicated below, give a different solution method.

$$1(b) \quad \frac{5}{8} + \frac{5}{8} + \frac{3}{8} =$$

$$= \frac{10}{8} + \frac{3}{8}$$

$$= \frac{13}{8}$$

$$= \frac{8}{8} + \frac{5}{8} = 1\frac{5}{8}$$

$$1(e) \quad \frac{5}{7} + \frac{1}{7} + \frac{4}{7} =$$

$$= 1 + \frac{1}{7} + \frac{2}{7}$$

$$= 1\frac{3}{7}$$

$$1(h) \quad 1\frac{3}{5} - \frac{4}{5} - \frac{1}{5} =$$

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

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

$$= \frac{3}{5}$$