

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Rearrange the terms so that you can add or subtract mentally, then solve.

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

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

d)  $5\frac{5}{8} - 2\frac{6}{7} - \frac{2}{7} - \frac{5}{8}$   
 $5 - 3\frac{1}{7} = 2 - \frac{1}{7}$   
 $= 1\frac{6}{7}$

d)  $\frac{7}{9} + \frac{1}{2} - \frac{3}{2} + \frac{2}{9}$   
 $1 + \frac{1}{2} - \frac{3}{2}$   
 $\frac{3}{2} - \frac{3}{2} = 0$

2. Fill in the blank to make the statement true.

g)  $7\frac{3}{4} - 1\frac{2}{7} - \frac{3}{2} = 4\frac{27}{28}$   
 $7\frac{21}{28} - 1\frac{8}{28} - 1\frac{1}{2}$   
 $6\frac{13}{28} - 1\frac{1}{2}$   
 $5\frac{13}{28} - \frac{1}{2} = 4\frac{41}{28} - \frac{14}{28} = 4\frac{27}{28}$

h)  $9\frac{5}{6} + 1\frac{1}{4} + 2\frac{11}{12} = 14$   
 $10\frac{5}{6} + \frac{1}{4}$   
 $10\frac{10}{12} + \frac{3}{12} = 10\frac{13}{12} = 11\frac{1}{12}$

i)  $\frac{7}{10} - 1 + \frac{3}{2} = \frac{6}{5}$   
 $\frac{7}{10} - \square + \frac{15}{10} = \frac{12}{10}$   
 $\frac{22}{10} - \square = \frac{12}{10}$

j)  $37\frac{7}{8} - 20 - 3\frac{1}{4} = 14\frac{5}{8}$   
 $\square - 23\frac{1}{4} = 14\frac{5}{8}$   
 $23\frac{1}{4} + 14\frac{5}{8}$   
 $23\frac{2}{8} + 14\frac{5}{8}$   
 $37\frac{7}{8}$

k)  $\frac{17}{3} + 2\frac{19}{30} + \frac{5}{2} = 10\frac{4}{5}$   
 $5\frac{2}{3} + \square + 2\frac{1}{2}$   
 $8\frac{1}{6} + \square = 10\frac{4}{5}$

l)  $23.1 + 1\frac{7}{10} - 18\frac{2}{10} = \frac{66}{10}$   
 $23\frac{1}{10} + 1\frac{7}{10} - \square = 6\frac{6}{10}$   
 $24\frac{8}{10} - \square = 6\frac{6}{10}$

$10\frac{4}{5} - 8\frac{1}{6}$   
 $10\frac{24}{30} - 8\frac{5}{30}$   
 $2\frac{19}{30}$

COMMON CORE Lesson 14: Strategize to solve multi-term problems.  
 Date:  $8/24/13$   
 engage<sup>ny</sup>

3. Laura bought  $8\frac{3}{10}$  yd of ribbon. She used  $1\frac{2}{5}$  yd to tie a package and  $2\frac{1}{3}$  to make a bow. Joe later gave her  $4\frac{3}{5}$  yd. How much ribbon does she now have?

$$8\frac{3}{10} + 4\frac{3}{5} - 1\frac{2}{5} - 2\frac{1}{3}$$

$$8\frac{3}{10} + 4\frac{6}{10} - 1\frac{4}{10} - 2\frac{1}{3}$$

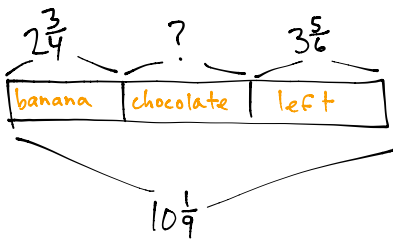
$$11\frac{9}{10} - 2\frac{1}{3}$$

$$11\frac{1}{2} - 2\frac{1}{3}$$

$$11\frac{3}{6} - 2\frac{2}{6} = 9\frac{1}{6}$$

Laura now has  $9\frac{1}{6}$  yards of ribbon.

4. Mia bought  $10\frac{1}{9}$  lb of flour. She used  $2\frac{3}{4}$  lb of flour to bake a banana cake and some to bake a chocolate cake. After baking the two cakes, she had  $3\frac{5}{6}$  lb of flour left. How much flour did she use to bake the chocolate cake?



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

$$= 5\frac{9}{12} + \frac{10}{12}$$

$$= 5\frac{19}{12} = 6\frac{7}{12}$$

$$10\frac{1}{9} - 6\frac{7}{12}$$

$$4\frac{1}{9} - \frac{7}{12}$$

$$4\frac{4}{36} - \frac{21}{36}$$

$$3\frac{40}{36} - \frac{21}{36} = 3\frac{19}{36}$$

Mia used  $3\frac{19}{36}$  pound for the chocolate cake.