Math 7 Notes (Section 4-4) Adding & Subtracting Unlike Fractions

To find the <u>least common denominator</u> (LCD)

- *Choose the biggest number in the denominator
- *Use it if the other number(s) divide evenly into it
- *If it doesn't work, list its multiples until you find one that works

Examples:













 $\frac{\Box}{12}$

$$\frac{7}{15} - \frac{4}{5}$$

$$\frac{7}{15} - \frac{4}{5}$$

$$-\frac{5}{6} - \frac{2}{9}$$

$$\frac{-5.3}{6.3} + \frac{-2.2}{9.2}$$

$$\frac{-19}{18} = \left(-1\frac{1}{18}\right)$$

Find each sum or difference. Write answer in simplest form.

$$-\frac{6}{9} + \left(-\frac{5}{6}\right)$$

$$\frac{-6(2)}{9(3)} + \frac{-5(3)}{6(3)}$$

$$\frac{3}{8} + \left(-\frac{7}{12}\right)$$

$$\frac{3(3)}{8(3)} + \frac{-7(2)}{12(2)}$$

$$\frac{9}{24} + \frac{-14}{24}$$

Evaluate each expression.
$$a = -\frac{7}{12}$$
 $b = \frac{1}{6}$ $c = -\frac{7}{9}$

$$\frac{7}{12} + \frac{1}{6} (2)$$

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

$$\frac{-7(3)}{12(3)} + \frac{7(4)}{9(4)}$$



Evaluate each expression. $a = -\frac{7}{12}$ $b = \frac{1}{6}$ $c = -\frac{7}{9}$

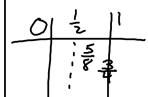
$$\frac{1(3)}{6(3)} - \frac{7(2)}{9(2)}$$

$$\frac{3}{18} + \frac{-18}{18}$$

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

Word Problems:

1) Mrs. Armstrong bought $\frac{5}{8}$ pound of roast beef and $\frac{3}{4}$ pound of ham. Which delimeat did she buy more of? How much more?



Word Problems:

2) Tim practice piano $\frac{5}{6}$ hour on Saturday and $\frac{7}{8}$ hour on Sunday. How many hours did he practice on the weekend?

Word Problems:

3) Sara budgets her monthly allowance as shown on the chart. What fraction of her allowance is spent on activities with friends?

The whole all present $-\left(\frac{1}{10} + \frac{1}{6} + \frac{1}{5}\right)$)
1	

1	10 6	٠, ١
	1	
/ -	$\left(\frac{3}{30} + \frac{1}{3}\right)$	(+ 송)
/-	<u>)4</u> 30	a

Part of monthly allowance spent on		
Activities with friends		
Savings	$\frac{1}{10}$	Ι,
Extra Snacks	$\frac{1}{6}$	69
Misc.	<u>1</u> / ₅	1
		J١